

حمل الآن

مجاناً وحصرياً

امتحانات رقم (1)

الترم الاول



1

Cairo Governorate

West Cairo Zone
Mathematics Supervision

1. Choose the correct answer :

1. The number of integers between -2 and 2 _____

- A. 2 B. 3 C. 4 D. 5

2. In the equation: $y = 3x + 6.4$ if $x = 1$, then $y =$ _____

- A. 6.4 B. 18.4 C. 19.2 D. 9.4

3. The outlier of the following data set: $91, 94, 93, 3, 90, 99$ is _____

- A. 99 B. 95 C. 3 D. 90

4. The constant in the expression: $2x + 5$ is _____

- A. 2 B. $2x$ C. $2x + 5$ D. 5

5. In the equation: $y = 2x$ if the input is 5 , then the output is _____

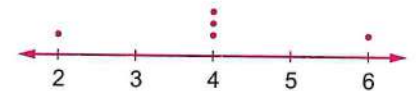
- A. 12 B. 10 C. 50 D. 0

6. The value of the expression: $5x^2 + 5$ when $x = 2$ is _____

- A. 30 B. 25 C. 52 D. 15

7. In the opposite dot plot :

the balance point is _____



- A. 2 B. 3 C. 4 D. 6

8. The number _____ is divisible by both 4 and 6

- A. 220 B. 750 C. 132 D. 93

9. The mode of the values: $5, 3, 2, 5, 8, 1, 5$ and 4 is _____

- A. 1 B. 2 C. 3 D. 5

2. Answer the following questions :

1. Write a verbal phrase for the equation: $x = 4 + y$

2. Order the following numbers from least to greatest.

$$0, -\frac{1}{2}, |-1|, \frac{1}{4}, 2^2$$

3. Write an equation, use the variables x and y , where x is the independent variable Write the equation "Add 3", when $x = \frac{1}{2}$ evaluate y

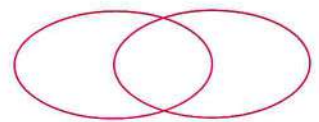
4. Draw the box plot for the following data set : 14 , 5 , 9 , 13 , 6 then find :

a. The median

b. The lower quartile



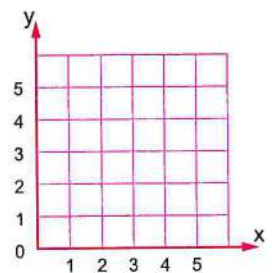
5. Use Venn diagram to calculate the G.C.F. and L.C.M of 12 and 15



6. Find the mean for the following data : 4 , 20 , 6 , and 10

7. Complete the following table , then represent the equation : $y = x + 1$ graphically.

X	0	2	4
Y	—	—	—



2

Cairo Governorate



Shobra Educational Zone
Mathematics Supervision

1. Choose the correct answer :

1. Which of the following represent one of solutions of the inequality : $x \geq -5$

A. - 6

B. - 11

C. - 5

D. - 12

2. The exponent form 3^4 equivalent _____

A. 3×4

B. $3 + 4$

C. $3 + 3 + 3 + 3$

D. $3 \times 3 \times 3 \times 3$

3. Which of the following rational number lies between 7.5 and 7.6 _____

A. 7.61

B. 7.58

C. 7.7

D. 7.65

4. The range of the set of values : 40 , 35 , 15 and 20 is _____

A. 25

B. 20

C. 30

D. 40

5. The constant in the algebraic expression : $6x + 4$ is _____
A. 4 B. 6 C. x D. 10
6. The additive inverse of the number $|-3|$ is _____
A. -3 B. 3 C. $\frac{3}{10}$ D. $-\frac{3}{10}$
7. All the following data are categorical except _____
A. age B. address C. favorite color D. blood type
8. The mathematical sentence : $2x = 6$ represents an _____
A. algebraic term B. algebraic expression C. equation D. inequality
9. All the following numbers less than -4 except _____
A. -6 B. -8 C. 0 D. -9

2. Answer the following questions :

1. Evaluate the algebraic expression : $[4 \times 8 - 2x] + 5^2$ when $x = 10$

2. Arrange ascendingly the following numbers :

5, -1 , -4 , 2, $|-14|$

The order is : _____

3. Find the arithmetic mean , the median and the mode for the values : 7 , 10 , 8 , 5 and 10

The arithmetic mean = _____

The median = _____

The mode _____

4. Solve the following equation : $x + 6 = 10$

5. A school has 1,155 students , they are distributed equally among 33 classes.

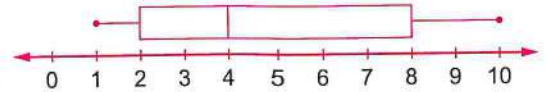
What is the number of students in each class ?

6. From the opposite box plot complete :

Minimum value = _____

Median = _____

The third quartile = _____



7. Find [G.C.F] and [L.C.M] of the two numbers 10 and 15

3

Giza Governorate



South Giza Directorate
Maths Inspection

1. Choose the correct answer :

1. The smallest counting number is _____

- A. 0 B. - 1 C. 1 D. 2

2. - 5 _____ the set of integers.

- A. belongs to B. doesn't belong to C. is a subset of D. isn't a subset of

3. L.C.M of 7 and 11 is _____

- A. 7 B. 11 C. 77 D. 18

4. Which of the following is a solution of : $x > - 2$?

- A. - 1 B. - 3 C. - 4 D. -2

5. The independent variable in the equation : $y = 5x + 1$ is _____

- A. x B. y C. 1 D. 5

6. The constant in the expression $5k + 3$ is _____

- A. 5 B. k C. 3 D. 0

7. All the following are numerical data except _____

- A. age B. weight C. length D. name

8. The outlier of the values 7 , 8 , 9 , 56 and 10 is _____

- A. 8 B. 7 C. 56 D. 10

9. $3\frac{1}{2}$ _____ $1\frac{2}{3}$

- A. > B. < C. =

2. Answer the following questions :

1. Find G.C.F of 12 and 16

2. Use order of operations to evaluate : $4 + 5^2 - [2 + 4 \div 4]$

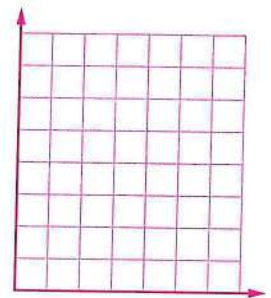
3. If $y = x + 1$, find the value of y when $x = 5$

4. Solve the following equation :

$$x + 2 = 6$$

5. Represent the following numbers data by a histogram :

Stes	10-19	20-29	30-39	40-49
Freq	2	5	6	4



6. Arrange the following numbers in an ascending order :

5 , - 3 , 8 , - 2

The order is : _____ , _____ , _____ , _____

7. For the following data : 3 , 1 , 10 , 5 and 1 , find :

Median = _____ , Mode = _____ , Mean = _____

Maximum value _____ , Minimum value = _____ , The range = _____

4

Giza Governorate



Math Inspection

1. Choose the correct answer :

1. The integer number before - 3 is _____

A. 3

B. - 3

C. - 4

D. 2

2. The smallest positive integer number is _____

A. -1

B. 0

C. 1

D. 2

3. If $x = |- 13 |$, then $x =$ _____

A. 8

B. 13

C. 7

D. - 2

4. The median of the values : 2 , 4 , 9 , 3 , 5 , 1 and 6 is _____

A. 9

B. 1

C. 5

D. 4

5. The range of the value : 5 , 9 , 14 and 4 is _____

A. 5

B. 6

C. 7

D. 10

6. All of the following are solutions of the inequality : $x < -4$ except _____
 A. - 7 B. - 11 C. - 3 D. - 6
7. If $2z + 10 = 30$, then $z =$ _____
 A. 6 B. 3 C. 10 D. 5
8. 0.5 _____ the set of integers.
 A. belongs to B. does not belong to
 C. is a subset of D. is not subset of
9. The algebraic expression that represents subtract y from 6 is _____
 A. $6 - y$ B. $y - 6$ C. $6y$ D. $6 \div y$

2. Answer the following questions :

1. Find three rational numbers lying between $\frac{2}{7}$ and $\frac{3}{7}$

2. Find 3 solutions for the inequality : $x \leq 7$

3. Find the G.C.F of 6 and 8

4. Evaluate the expression : $14 \div n + 5^2$ at $n = 2$

5. Complete using the opposite box plot :

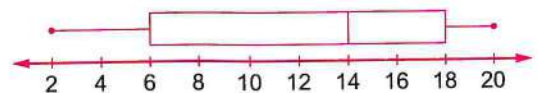
Minimum value : _____

Maximum value : _____

Q1: _____

Median : _____

Q3: _____



6. Arrange the following numbers from least to greatest :

$-5, |-3|, 17, 21, 0, -12$

The order is : _____

7. Complete the following table using the equation: $y = 3x + 2$

x	0	1	2	3	4
y	—	—	—	—	—

5

Alexandria Governorate

Middle Education Zone
Mathematics Supervisor

1. Choose the correct answer :

1. The number which divisible by both 2 and 5 is _____

A. 206

B. 625

C. 624

D. 620

2. 7^0 _____ 7×2

A. <

B. =

C. >

D. ≤

3. The mode of the numbers 7, 1, 5, 7, 3, 7 and 2 is _____

A. 6

B. 7

C. 8

D. 9

4. If $m - 3 = 5$, then $m =$ _____

A. 3

B. 5

C. 15

D. 8

5. The smallest positive integer is _____

A. 0

B. 1

C. -1

D. 2

6. $\frac{1}{5} + \frac{7}{10} =$ _____A. $\frac{8}{15}$ B. $\frac{9}{10}$ C. $\frac{2}{5}$ D. $\frac{6}{10}$ 7. If $4x + 5 = y$, then the dependent variable is _____A. $4x$

B. 5

C. x D. y 8. The additive inverse of $|6|$ is _____

A. 6

B. -6

C. 1

D. 0

9. In the algebraic expression $9x + 7$ the coefficient is.

A. 9

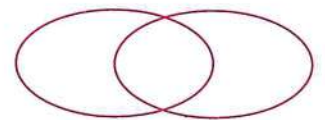
B. 7

C. $9x$

D. 1

2. Answer the following questions :

1. Find the G.C.F and L.C.M of 12 and 18 using the Venn diagram.

2. Use order of mathematical operations to find the result of : $[3 \times 2^2] \div 6 + 3$

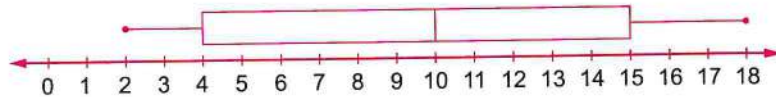
3. Write an equation using variables x and y , where $[x]$ is an independent variable [The rule is multiply by 5]

4. Arrange the following numbers in an ascending order :

$3.4, 0, |-1.8|, -2.5$

The order : _____ , _____ , _____ , _____

5. Find the 5- number summary using the following box plots :



* Minimum value : _____ * Maximum value : _____
 * Median : _____ * Lower quartile : _____ * Upper quartile : _____

6. Write two possible integers that could be a solution of the inequality : $x < 5$

7. Find the value of the algebraic expression : $b^2 + 11$ [if $b = 3$]

6

El-Kalyoubia Governorate



Mathematics Supervision

1. Choose the correct answer :

1. All the following numbers are divisible by 6 except _____

A. 924 B. 120 C. 663 D. 252

2. Which of the following is an integer ? _____

A. $\frac{16}{5}$ B. $-\frac{2}{4}$ C. $-\frac{15}{5}$ D. -0.4

3. $|-1.34| < \underline{\hspace{2cm}}$

A. 1.4 B. -1.29 C. -1.4 D. 1.19

4. The algebraic expression which consists of 3 terms is _____

A. $2s + k + 7$ B. abc C. $11r$ D. 3

5. If we subtract 5 from the number x , we get _____

A. $x + 5$ B. $5x$ C. $5^2 + x$ D. $x - 5$

6. The value of the expression : $5n - 2$ when $n = 1$ is _____
 A. 5 B. 3 C. -2 D. 1
7. Which display makes it easier to see the median ?
 A. Histogram B. Box plot C. Dot plot D. Bar graph
8. The mean of the values: 3 , 5 and 4 is _____
 A. 12 B. 5 C. 4 D. 3
9. The outlier of the following values: 5 , 38 , 9 , 7 and 3 is _____
 A. 3 B. 38 C. 5 D. 9

2. Answer the following questions :

1. Arrange the following numbers in an ascending order :

1 , - 11 , 3 , - 1 , - 8

The order is :

2. Use order of mathematical operations to find the result of : $(10 - 5) + 4 \times 3^2 \div 6$

3. Write the algebraic expression for the sum of 2 times x and 5

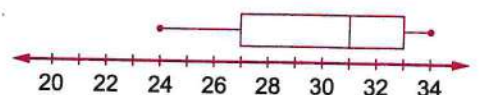
4. If $y = 2x + 7$, then find the value of y at $x = 4$

5. Use the equation : $y = 3x$ to answer the following questions :

- a. The dependent variable is _____ , and the independent variable is _____
 b. The value of y when $x = 2$ is _____

6. From the opposite box plot :

- a. The minimum value = _____
 b. The maximum value = _____
 c. Lower quartile Q_1 = _____
 d. Upper quartile Q_3 = _____



7. Using the following set of data : 2 , 9 , 6 , 9 , 4 , 9 and 8 to find :

- a. The range _____
 b. The mode _____



1. Choose the correct answer :

1. The number 2.71 belongs to _____ Numbers.

- A. Counting B. Natural C. Integer D. Rational

2. Which of the following is an algebraic expression ?

- A. $3^2 - 4$ B. $5x + 3$ C. $29 - 3^2$ D. $2[4 + 5]$

3. $|-8| > \underline{\hspace{2cm}}$

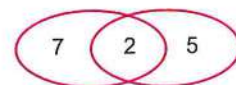
- A. $|-7|$ B. $|-8|$ C. $|-9|$ D. $|-10|$

4. The outlier value of the following data : 23 , 25 , 27 , 94 , 21 , 22 and 26 is _____

- A. 21 B. 27 C. 26 D. 94

5. From the opposite Venn diagram, the G.C.F = _____

- A. 42 B. 2 C. 10 D. 7

6. $6 \times 6 \times 6 \times 6 = \underline{\hspace{2cm}}$

- A. 6^2 B. 6^3 C. 4^6 D. 6^4

7. The mode of the values : 7 , 9 , 7 , 8 , 7 , 6 , 7 , and 10 is _____

- A. 8 B. 7 C. 9 D. 10

8. "x increased by 6 equal y" in an algebraic equation form is _____

- A. $x - 6 = y$ B. $x = y + 6$ C. $y = x + 6$ D. $y = x - 6$

9. $5[2 + \underline{\hspace{2cm}}] = 10 + 25$

- A. 2 B. 4 C. 7 D. 5

2. Answer the following questions :

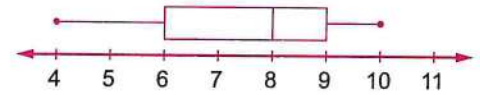
1. Find the result of : $3\frac{2}{8} + 4\frac{3}{8} = \underline{\hspace{2cm}}$

2. Complete the following table using the equation $y = x + 2$

x	0	2	4
y	_____	_____	_____
(x, y)	(0, _____)	(2, _____)	(4, _____)

3. Find the value of the expression : $[2x + 3] - 5$ at $x = 3$

4. Use the following box plot to complete :



The median is _____

The upper quartile is _____

The range is _____

5. Find the mean of the following values : 6 , 8 , 4 , 3 , 7 , and 2

6. Use order of mathematical of operations to find the result of : $60 - [5 \times 4] \div 2$

7. Find the G.C.F and the L.C.M of 10 and 30.

8

El-Monofia Governorate



Shebeen el koum Educational
Directorate Mahs Supervision

1. Choose the correct answer :

1. The number 81 is divisible by _____

- A. 10 B. 2 C. 3 D. 4

2. L.C.M of the numbers : 9 and 4 is _____

- A. 36 B. 45 C. 72 D. 24

3. $|-2|$ _____ -3

- A. < B. > C. = D. otherwise

4. Which of the following is a categorical data ? _____

- A. weight B. age C. favourite food D. length

5. The constant in the expression : $2x + 4y + 3$ is _____

- A. 2 B. 4 C. 1 D. 3

6. The rational number lies between 7.5 and 7.6 is _____

- A. 7.61 B. 7.59 C. 7.7 D. 8.51

7. The mean of the values : 5 , 7 , 3 and 21 is _____

- A. 12 B. 9 C. 15 D. 8

8. $\frac{7}{10} - \frac{1}{5} =$ _____

- A. $\frac{1}{2}$ B. $\frac{6}{5}$ C. $\frac{7}{10}$ D. $\frac{3}{10}$

9. The range of the values : 10 , 7 , 3 and 21 is _____

A. 18

B. 7

C. 2

D. 10

2. Answer the following questions :

1. A merchant distributed 12 bottles of milk and 8 bottles of juice on boxes contain same number of bottles milk and juice, find greatest number of boxes can merchant consists it. write numerical expression of situation

2. Arrange the following numbers in an ascending order : $| - 4 |$, 5 , - 14 , - 20 , 7 , - 11

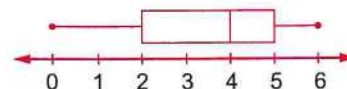
3. Find the value of the expression : $[15 - m] + 3 \times 2^3$ when $m = 9$

4. From the box plot complete :

a. Median _____

b. Lower quartile _____

c. Maximum value _____



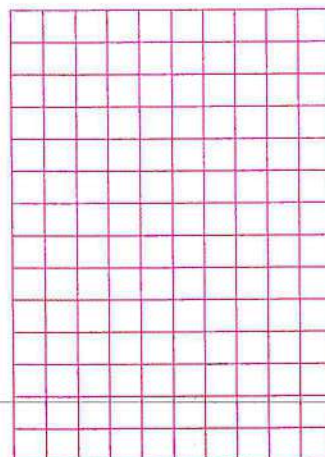
5. Represent the solution set on the number line for the inequality : $x \geq - 2$



6. Find the solution set of equation : $4x + 6 = 30$ in Z

7. Table show a temperature , represent the data by a histogram

Temperature	20-22	23-25	26-28	29-31
Frequency	5	9	12	7





1. Choose the correct answer :

- In the equation: $m = 5n + 3$, the independent variable is _____
A. m B. n C. 3 D. 5
- The number _____ is one of solutions of the inequality : $x \leq 4$
A. 10 B. 5 C. -1 D. 12
- The outlier of the following data set 91, 94, 93, 3, 90 and 99 is _____
A. 0 B. 99 C. 3 D. 900
- If the mean of 8, 4, 2, 6 and x is 5, then $x =$ _____
A. 5 B. 25 C. 4 D. 20
- The number 1,132 is divisible by _____
A. 4 B. 5 C. 6 D. 10
- The least common multiple [L.C.M] of 6 and 10 is _____
A. 10 B. 30 C. 2 D. 60
- The integer _____ comes just before - 7
A. - 8 B. 6 C. 8 D. - 6
- The number of terms of the expression : $3x + 2y + 5$ is _____
A. 5 B. 2 C. 3 D. 1
- Which of the following is a numerical data ?
A. Blood type B. Birth place C. age D. Favorite colors

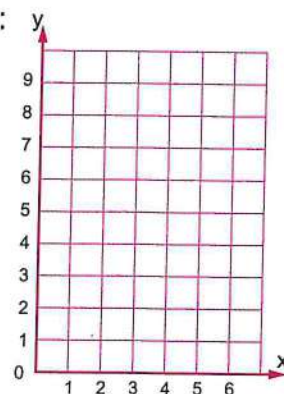
2. Answer the following questions :

1. Complete the following table ,then represent the equation graphically :

The equation: $y = 2x + 1$

x	0	2	4
y	_____	_____	_____
(x, y)	(0, _____)	(2, _____)	(4, _____)

2. Find two rational numbers lying between - 3.7 and - 3.8

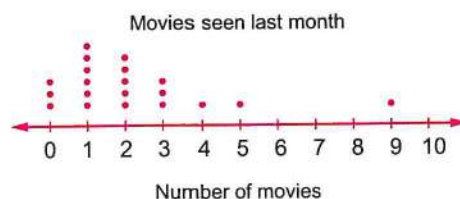


3. From the opposite dot plot answer the following questions.

a. How many people were surveyed ?

b. How many people saw 3 movies ?

c. How many people saw 2 movies or more ?



4. Using the following set of data : 2 , 9 , 6 , 9 , 4 , 9 and 8 , find :

- The range = _____
- The mode = _____
- The Lower quartile = _____

5. Evaluate the expression : $9 + (p^2 - 3) \div 2$ when $p = 5$

6. Solve each of the following equations :

a. $m - 5 = 7$

b. $4m = 24$

7. Sara ate $\frac{3}{4}$ of the cake and Mona ate $\frac{1}{8}$ of the same cake.

How much of the cake has eaten ?

10

El-Dakahlia Governorate



Maths Supervision

1. Choose the correct answer :

a. $|-1.4|$ _____ -1.4

A. >

B. =

C. <

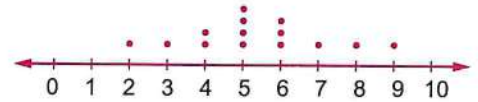
D. $\leq$

b. The expression represents [Subtract 5 from number y] is _____

- A. $y - 5$ B. $y + 5$ C. $5 - y$ D. $5y$

c. From the opposite dot plot :

The range is _____



- A. 2 B. 5 C. 7 D. 9

2. Use order of mathematical operations to find the result of:

$$(10 - 5) + 4 \times 3^2 \div 6$$

2. 1. Choose the correct answer :

a. The number of integers between -2 and its opposite is _____

- A. -1 B. 0 C. 3 D. 4

b. The following data are numerical except _____

- A. Height B. Weight C. Blood type D. Age

c. The exponent of 6^2 is _____

- A. 6 B. 2 C. 36 D. 62

2. Find the value of the algebraic expression : $[5 + 2b] \times 10$ when the value of $b = 2$

3. 1. Choose the correct answer :

a. The constant in the expression : $5x + 4$ is _____

- A. 5 B. x C. 4 D. 9

b. The upper quartile of the values : $3, 1, 4, 8, 5, 7$ and 11 is _____

- A. 1 B. 3 C. 7 D. 8

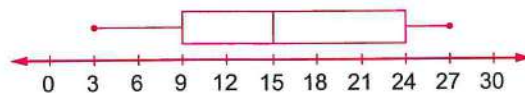
c. The value of the variable x which satisfy the inequality $x < -2$ is _____

- A. 0 B. 2 C. -1 D. -3

2. Solve the equation : $x + 3 = 12$

4. 1. From the opposite box plot :

- a. The lower quartile is _____
 b. The median is _____
 c. The maximum value is _____



B. Complete the following table for the equation : $y = x + 5$

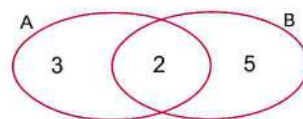
x	0	4	—
y	—	—	11

5. 1. From the following set of values : 7 , 5 , 3 , 2 and 3 find :

- a. The arithmetic mean. b. The Mode.

2. From the opposite Venn diagram :

- a. Number A = _____ b. G.C.F = _____
 c. L.C.M = _____



11

Ismailia Governorate



Maths Supervision

1. Choose the correct answer :

- The number whose prime factors are (2 , 2 and 5) is _____.
 A. 10 B. 20 C. 30 D. 40
- The value of x in the equation : $9 = x + 4$ is _____.
 A. 3 B. 4 C. 5 D. 6
- The largest negative integer is _____.
 A. -100 B. -10 C. 0 D. -1
- The following data are numerical data except _____.
 A. Hair color B. Weight C. Age D. Number of children
- The mode of the values (2 , 5 , 3 , 2 and 7) is _____.
 A. 7 B. 5 C. 2 D. 3
- The exponential form of a number with a base of 5 and an exponent of 2 is _____.
 A. 2^5 B. 5^2 C. 25 D. 52
- If Mona's mass was 23.5 kg and her mass increased by (y) kg, then the mathematical expression that expresses Mona's mass after the increase is _____.
 A. $y + 23.5$ B. $y \times 23.5$ C. $y - 23.5$ D. $y \div 23.5$

8. L. C. M of the numbers 10 and 15 is _____
 A. 15 B. 30 C. 50 D. 55
9. The outlier value of the data set (3, 4, 7, 6 and 35) is _____
 A. 6 B. 4 C. 7 D. 35

2. Answer the following questions :

1. Write the integers between $-2, 2$

2. Use order of mathematical of operations to find the value of the numerical expression :
 $2^2 \times 5 - 10$

3. What is the set of numbers which the number 5.7 belongs to ?

4. Write an algebraic expression that expresses the verbal expression 5 times a number minus 4

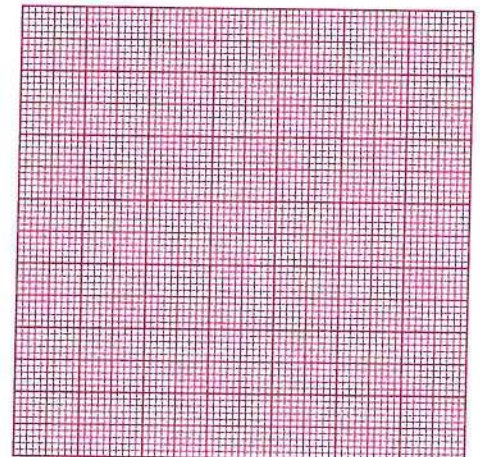
5. If the equation is $y = 2x + 3$, state the dependent variable and the independent variable

6. Find the arithmetic mean of the values : 3, 5, 2, 3 and 7

7. The following table shows the number of study hours for some students per day.

Grades	0-1	2-3	4-5	6-7
Number of students	8	16	12	4

Represent this data in a frequency histogram.



**1. Choose the correct answer :**

1. $|-24| =$ _____

A. -24

B. 24

C. 2.4

D. -2.4

2. The median of the set : 5 , 2 , 9 , 4 , 6 , 8 and 7 is _____

A. 4

B. 6

C. 5

D. 7

3. $2^2 \times 6 - 30 \div 3 =$ _____

A. 14

B. 24

C. 34

D. 12

4. Which of the following values is one of the solutions of the inequality : $x \geq -3$?

A. -6

B. -5

C. -4

D. -2

5. -2 _____ -5

A. <

B. =

C. >

D. $\leq$ 6. The coefficient in the mathematical expression : $3x + 4 + 11$ is _____

A. 3

B. x

C. 11

D. 4

7. From the data set : 3 , 7 , 2 , 4 , 5 , 8 and 10 , the minimum value is _____

A. 10

B. 3

C. 2

D. 8

8. $6^2 =$ _____

A. 36

B. 42

C. 12

D. 24

9. The mean of the set of values : 6 , 5 and 13 is _____

A. 8

B. 12

C. 24

D. 6

2. Answer the following questions :

1. Find the L.C.M of 24 and 18

2. Evaluate the algebraic expression : $10 + [t^2 + 3] \div 4$, If $t = 3$?

3. Find the value of y if : $x = \frac{1}{4}$ in the equation $y = 4x$

4. Write the mathematical expression that express the verbal phrase "5 is subtracted from 3 times a number"

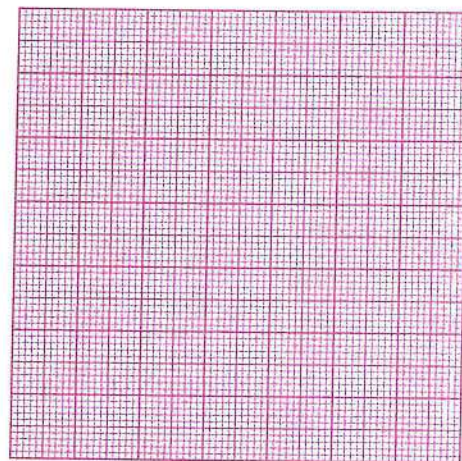
5. For the data set : 4 , 8 , 5 , 3 , 1 , 7 and 6 , state the number that represent the upper quartile [Q_3].

6. Arrange the following integers in a descending order :
14 , - 7 , 18 , - 8 , - 6

7. The following table shows the height of students in centimeters in a classroom :

Length in cm	100-109	110-119	120-129	130-139
Number of students	6	10	8	10

Represent the data by a histogram.



13

Damietta Governorate



Maths Supervision

1. Choose the correct answer :

1. $2\frac{2}{5} + 2\frac{3}{5} =$ _____

A. 2

B. 5

C. 6

D. 3

2. $|-4|$ _____ the additive inverse of -3

A. >

B. <

C. =

D. otherwise

3. The mode of this set of data : 3 , 5 , 3 , 7 , 3 is _____

A. 5

B. 7

C. 3

D. 9

4. The coefficient of $4d$ is _____

A. 4

B. 1

C. 6

D. 3

5. The greatest number from the integers : - 7 , - 3 , - 2 , - 5 is _____

A. - 7

B. - 2

C. - 3

D. - 5

6. _____ is one of the solutions of the inequality : $x \leq 3$ _____
 A. 6 B. 3 C. 4 D. 5
7. The range of : 7 , 3 , 9 , 6 and 5 is _____
 A. 9 B. 2 C. 6 D. 12
8. The first quartile of the values : 1 , 2 , 5 , 7 , 8 , 9 and 11 is _____
 A. 8 B. 7 C. 2 D. 1
9. Three times x added to 7 equals y in an algebraic equation is _____
 A. $y = 7x - 3$ B. $y = 3x + 7$ C. $y = 7x + 3$ D. $y = 3x - 7$

2. Answer the following questions :

1. Find the median and the mean of : 7 , 10 , 3 , 5 and 10

2. Nabil drunk $\frac{1}{3}$ liter of juice from $\frac{3}{4}$ liter. How many liters of juice are left ?

3. Solve the equation : $3x - 4 = 5$

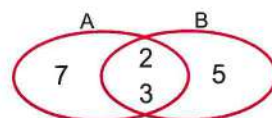
4. Evaluate the expression : $5 + [y^2 - 13]$ when $y = 5$

5. From the opposite Venn diagram find :

A = _____

B = _____

The G.C.F of A and B = _____



6. Complete the table of the equation : $y = 3x$

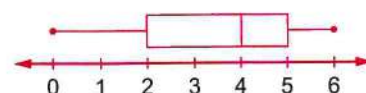
x	0	1	2
y	—	—	—

7. Use this box plot to find :

The minimum value _____

The maximum value _____

The third quartile _____



14

Kafr El-Shiekh Governorate



Maths Inspection

1. Choose the correct answer :

1. Number of factors of the number 4 is _____
 A. 2 B. 4 C. 3 D. 1
2. The number _____ is divisible by 6
 A. 236 B. 900 C. 217 D. 661
3. Which of the following are relatively prime numbers ? _____
 A. 2 and 6 B. 5 and 10 C. 25 and 36 D. 3 and 9
4. $2^2 + 2^2 =$ _____
 A. 2^4 B. 2^3 C. 4^4 D. 4^3
5. Number of terms of the expression : $-2x + 2y - 5$ is _____
 A. 2 B. 3 C. 4 D. 5
6. The smallest solution of the Inequality $x \geq -3$ is _____
 A. 0 B. -3 C. -2 D. -1
7. All of following represents numerical data except the _____
 A. Temperature B. height C. weight D. favorite color
8. The mode of values : 2 , 3 , 5 , 2 and 2 is _____
 A. 2 B. 3 C. 5 D. 1
9. The algebraic expression for a number less 7 is _____
 A. $x - 7$ B. $7 - x$ C. $7 + x$ D. $2x + 7$

2. Answer the following questions :

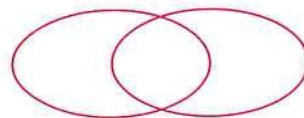
1. $5\frac{2}{7} - 2\frac{3}{7} =$ _____

2. If $2x = 8$, Then $3x - 1$

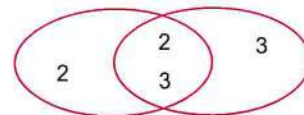
3. If $(1, c)$ Satisfies the equation : $y = 3x + 2$, then find the value of c

4. Find the value of the expression : $5n + 1$ when $n = 2$

5. Find L.C.M and G.C.F by using Venn diagram of the numbers 12 and 18



6. By using the opposite Venn diagram , the experssion that represents the sum of two numbers using distributive property is

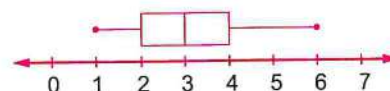


7. Use the opposite box plot to complete :

The minimum value is _____

The median is _____

The lower quartile is _____



15

El-Fayoum Governorate



Directorate of Education
Supervision of mathematics

1. Choose the correct answer :

1. The smallest counting number is _____

- A. 0 B. 1 C. 2 D. 3

2. $18 + 9 = 9(2 + \text{_____})$

- A. 0 B. 1 C. 2 D. 3

3. The mean of : 3 , 7 , 8 and 2 is _____

- A. 20 B. 5 C. 4 D. 3

4. If : $5y = 30$, then $2y = \text{_____}$

- A. 5 B. 3 C. 12 D. 6

5. $-\frac{1}{2}$ _____ zero

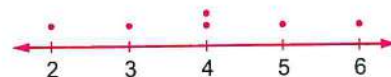
- A. > B. < C. = D. ≥

6. The common multiple of all numbers is _____

- A. 0 B. 3 C. 1 D. 6

7. The balance point of the opposite data is _____

- A. 5 B. 3
C. 10 D. 4



8. The mode of the data : 2 , 5 , 2 , 3 , 2 , 6 and 2 is _____
 A. 5 B. 3 C. 2 D. 6
9. The constant in the algebraic expression: $5x + 3b + 4$ is _____
 A. 4 B. 3 C. 10 D. 6

2. Answer the following questions :

1. Complete then draw the box plot for the values : 7 , 0 , 6 , 2 , 3 , 1 and 9

Min	_____
Q1	_____
Median	_____
Q3	_____
Max	_____

2. Find G.C.F of the numbers 24 and 18

3. Use order of mathematical of operations to evaluate : $5^2 + 8 \div [6 - 2]$

4. Arrange the following numbers in an ascending order :

$$3\frac{5}{9}, 5\frac{3}{8}, 0.6, -4, 2\frac{3}{7}$$

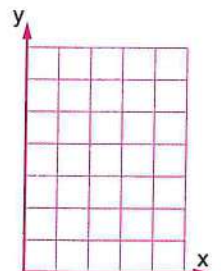
5. Find the range of the values : 13 , 5 , 11 , 7 , 9 and 1

6. Find 2 solutions for the inequality : $x \leq -1$

7. Complete the following table , then represent it graphically

The equation : $y = x + 1$

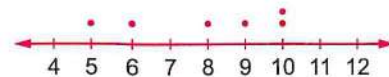
x	1	2	3
y	—	—	—





1. Choose the correct answer :

- The mode of the values : 5 , 23 , 6 , 9 , 5 , 4 and 5 is _____
A. 4 B. 5 C. 6 D. nothing
- The following data are numerical data except _____
A. length B. blood type C. weight D. age
- The dependent variable in the equation : $y = 4x$ is _____
A. 4 B. x C. y D. otherwise
- The solution of the equation : $8 + x = 19$ is _____
A. 8 B. 10 C. 11 D. 27
- The coefficient in the expression : $7x + 10$ is _____
A. 3 B. 7 C. 10 D. 1
- 5 squared = _____
A. 5^2 B. 5 C. 15 D. 5^3
- The balanced point of the set of data which is represented by the opposite dot plot is _____
A. 10 B. 9 C. 7 D. 8
- The best subset of the number zero is _____ number.
A. a natural B. an integer C. a rational D. counting
- The outlier value of the following data set is 23 , 25 , 27 , 24 , 94 and 21 is _____
A. 22 B. 27 C. 25 D. 94

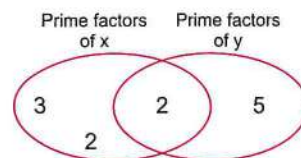


2. Answer the following questions :

- Use order of mathematical operations to simplify : $40 + 5[3^2 - 7] + 10$

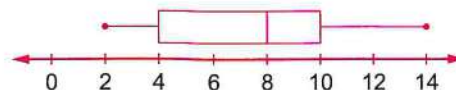
- From the opposite venn diagram complete :

- The two numbers are _____ and _____
- The G.C.F of two numbers = _____
- The L.C.M of two numbers = _____



- Use the following box plot to complete the following :

- Min. = _____
- Max. = _____
- Median = _____
- Q1 = _____
- Q3 = _____



4. Arrange the following numbers in an ascending order :

5, -14, $|-20|$, -7

The order is : _____, _____, _____, _____

5. Find the arithmetic mean and the range for the following set of values :

5, 8, 7, 6 and 4

Mean = _____

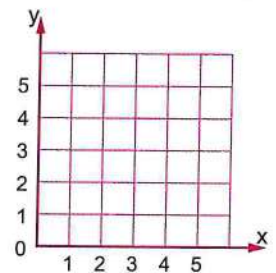
Range = _____

6. The foodbank needs to distribute 116 food boxes . Is it possible to distribute the boxes equally among 4 villages ?

7. Complete the following table, then represent it graphically

The equation : $y = x + 1$

x	0	1	2
y	_____	_____	_____
(x, y)	(0, _____)	(1, _____)	(2, _____)



17

Souhag Governorate



Maths Supervision

1. Choose the correct answer :

1. Any number is divisible by 3, if the sum of its digits is divisible by _____

A. 2

B. 3

C. 5

D. 4

2. The greatest common factor of two relatively prime numbers is _____

A. 0

B. 1

C. 2

D. 3

3. The best set of the number - 7 is a \ an _____ numbers.

A. counting

B. natural

C. integer

D. rational

4. The value of the expression : $6 + [m^2 - 7]$, when $m = 4$

A. 15

B. 4

C. 3

D. 0

5. If $\frac{1}{2}x = 0.5$, then $3x =$ _____

A. 10

B. 30

C. 3

D. 1

6. _____ is one of the categorical data.

A. Age

B. Tall

C. Weight

D. Birth place

7. If the side length of a rhombus is 5 cm, then the perimeter of the rhombus = _____ cm.

- A. 20 B. 25 C. 15 D. 5

8. The range = the greatest value _____ the smallest value.

- A. + B. - C. × D. ÷

9. From the following dot plot, the best measure of central tendency is / are _____



- A. mode B. median
C. range D. both mean and median

2. Answer the following questions :

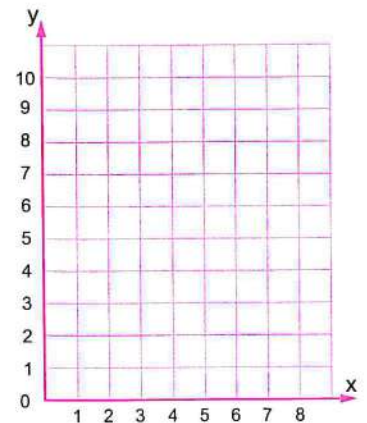
1. m equal twice n increased by 25 as an algebraic expression is _____

2. Find the result of : $4\frac{5}{12} - \frac{1}{3}$?

3. Complete the following table, then represent it graphically.

The equation is : $y = 2x - 1$

x	1	3	5
y	_____	_____	_____
(x, y)	_____	_____	_____



4. Arrange the following numbers in an ascending order :

$0, -\frac{1}{3}, |-4|, -\frac{1}{2}, 0.4$

The order is :

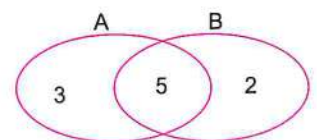
_____, _____, _____, _____, _____

5. By using the opposite Venn diagram complete :

a. A = _____, B = _____

b. The least common multiple is _____

c. The expression that represents the addition of the two numbers is _____ × (_____ + _____)



6. Find 3 solutions belong to the set of integers for the inequality $x \geq 0$, then graph it on the number line.

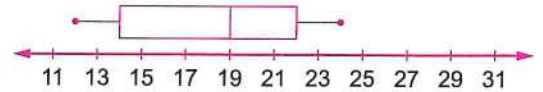


7. Use the following box plot to complete :

a. The maximum value = _____

b. The median = _____

c. The upper quartile = _____



18

Qena Governorate



Math General Supervision

1. Choose the correct answer :

1. _____ is divisible by 2 and 3

A. 8

B. 9

C. 30

D. 15

2. All the following are categorical data except _____

A. name

B. age

C. color

D. nationality

3. If: $4x = 20$, then $x - 5 =$ _____

A. 0

B. 5

C. 10

D. 15

4. _____ is the best display shows the 5-number summary

A. Dot plot

B. Histogram

C. Bar graph

D. Box plot

5. The inequality that represents a number not less than 5

A. $x > 5$

B. $x \geq 5$

C. $x < 5$

D. $x \leq 5$

6. G.C.F of 12 and 20 is _____

A. 4

B. 12

C. 20

D. 60

7. If: $|x| = 3$, then $x =$ _____

A. 3

B. -3

C. 3, -3

D. 0

8. The dependent variable in the equation: $y = 2x - 3$ is _____

A. x

B. y

C. 2

D. -3

9. The outlier value of the following data : 101, 103, 105, 102, 700 and 104 is _____

A. 101

B. 102

C. 104

D. 700

2. Answer the following questions :

1. Order the following numbers from the least to the greatest

-4, $|-7|$, 0, 3, -1

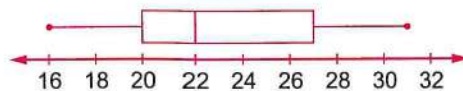
The order is : _____, _____, _____, _____, _____

2. Solve the following equation :

$$x + 3 = 11$$

3. By using the opposite box plot complete :

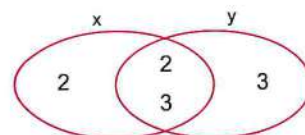
- The median = _____
- The lower quartile = _____
- The upper quartile = _____



4. Evaluate the expression : $6 + 7 \times (b^2 - 4)$ at $b = 3$

5. The opposite Venn diagram represents the prime factors of the two numbers x and y , complete :

- $x =$ _____
- $y =$ _____
- G.C.F = _____



6. Complete the table of the equation : $y = 2x + 1$

x	0	1	2
y	—	—	—

7. Find the mean, mode and median of the values : 3, 4, 4, 5, 6, 7 and 13

- The mean = _____
- The mode = _____
- The median = _____

19

Aswan Governorate



Aswan Educational Zone
Math Department

1. Choose the correct answer :

1. The number 4.9 belongs to the set of _____ number.

- counting
- natural
- integer
- rational

2. If : $|-42| = a$, then the value of a is _____

- 42
- 42
- 2
- 24

3. _____ is the numerical data.

- Address
- Age
- Nationality
- Name

4. In the mathematical expressions : $2a + 7 + 4a$, the constant is _____

- 2
- 7
- 4
- a

5. The mathematical expressions which represent the product of 7 by y is _____

- $y + 7$
- $y - 7$
- $7y$
- $7 - y$

6. $3^2 =$ _____

- 6
- 27
- 9
- 18

7. The mode of the values : 9, 4, 9, 7, 0, 1 and 9 is _____

- 0
- 9
- 7
- 1

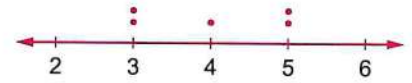
8. The algebraic expression : $3 \times [y + 1]$ is equivalent to the algebraic expression _____

- A. $3y + 3$ B. $3y + 1$ C. $y + 3$ D. $3y - 3$

9. From the opposite dot plots graph :

The balance point is _____

- A. 2 B. 4 C. 5 D. 6



2. Answer the following questions :

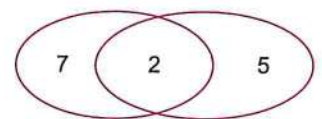
1. Use order of mathematical of operations to find the numerical expression of :

$$3^2 \times 5 - 40 \div 4$$

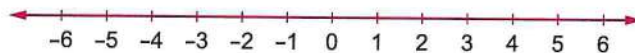
2. By using the opposite Venn diagram , find each of : G. C. F and L. C. M of two numbers : 10 and 14

G. C. F = _____

L. C. M = _____



3. Represent on the following number line the solution set of the inequality : $x > -1$ in the set of integer number.



4. Find the value of the algebraic expression: $(P^2 + 3) - 2$ when $P = 2$

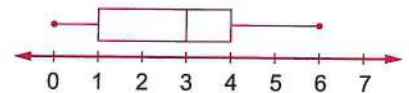
5. Find the value of x in the equation : $3 + x = 12$

6. By using the opposite box Plot complete :

a. The minimum value = _____

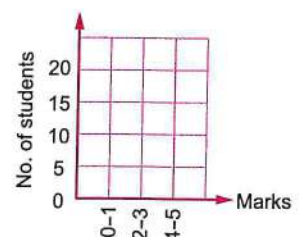
b. The maximum value = _____

c. The median = _____



7. The following table shows the marks of students in the weekly quiz :

Marks	0 - 1	2 - 3	4 - 5
No. of students	5	10	15



Represent this data by using the histogram



1. Choose the correct answer :

1. The [L.C.M] of the two numbers 2 and 3 is _____
 A. 6 B. 12 C. 30 D. 36
2. The opposite of the number -5 is _____
 A. 4 B. 5 C. 6 D. 7
3. $|-3|$ _____ 3
 A. $<$ B. $>$ C. $=$ D. $\leq$
4. The number of terms of the algebraic expression : $5x + 3 + m$
 A. 0 B. 1 C. 2 D. 3
5. If : $x + 3 = 5$, then the value of x is _____
 A. 2 B. 3 C. 4 D. 5
6. The coefficient of the expression : $5x - 4$ is _____
 A. 2 B. x C. 5 D. 3
7. _____ is a categorical data.
 A. Age B. Height C. Favorite color D. Weight
8. The range of the values : 1 , 4 , 6 , 5 and 7 is _____
 A. 4 B. 5 C. 8 D. 6
9. The median of the values : 2 , 1 , 4 , 8 and 7 is _____
 A. 4 B. 6 C. 8 D. 10

2. Answer the following questions :

1. From the following numbers : 21 , 102 , 225 , 120 , 100 and 101

Write the numbers which are divisible by 2.

2. Arrange the following numbers from the smallest to the greatest.

 -2.4 , -3.2 , -1.5 , 2.1 , 1.4

3. Use order of mathematical operations to find the value of the following numerical expression :
- $2^2 \div [2 - 1]$

4. Find the value of the expression : $2x + 4$ at $x = 3$

5. Represent the solution of the following inequality in the set of integers on the number line.
 $x > -1$

6. Find the mode of the values : 8 , 5 , 8 , 6 , 8 and 4

7. Find the arithmetic mean of the following set of values : 1 , 2 , 4 , 6 and 7

1

Cairo

1. 1. B 2. D 3. C
4. D 5. B 6. B
7. C 8. C 9. D

2. 1. The number x equals 4 added to the number y

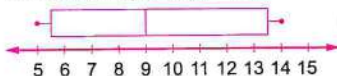
2. The order is: $-\frac{1}{2}, 0, \frac{1}{4}, |-1|, 2^2$

3. $y = x + 3$

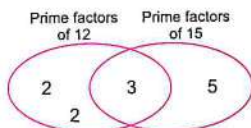
$$y = \frac{1}{2} + 3 = 3\frac{1}{2}$$

4. The median = 9

The lower quartile = 5.5



5.



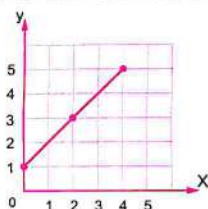
G.C.F = 3

L.C.M = $2 \times 2 \times 3 \times 5 = 60$

6. The mean = $\frac{4 + 20 + 6 + 10}{4} = 10$

7.

x	0	2	4
y	1	3	5



2

Cairo

1. 1. C 2. D 3. B
4. A 5. A 6. A
7. A 8. C 9. C

2. 1. $(4 \times 8 - 2 \times 10) + 5^2 = (32 - 20) + 5^2$
 $= 12 + 25 = 37$

2. The order is:

$-4, -1, 2, 5, |-14|$

3. The arithmetic mean

$$= \frac{7 + 10 + 8 + 5 + 10}{5} = 8$$

The order is: 5, 7, 8, 10, 10

The median = 8

The mode = 10

4. $x = 10 - 6 = 4$

5. The number of students

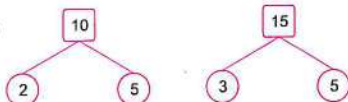
$$= 1155 \div 33 = 35 \text{ students}$$

6. Minimum value = 1

Median = 4

The third quartile = 8

7.



$$10 = 2 \times 5$$

$$15 = 3 \times 5$$

$$\text{G.C.F} = 5$$

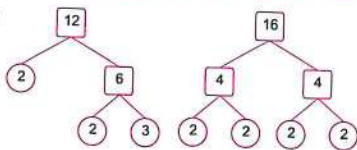
$$\text{L.C.M} = 2 \times 5 \times 3 = 30$$

3

Giza

1. 1. C 2. A 3. C
4. A 5. A 6. C
7. D 8. C 9. A

2. 1.



$$12 = 2 \times 2 \times 3$$

$$16 = 2 \times 2 \times 2 \times 2$$

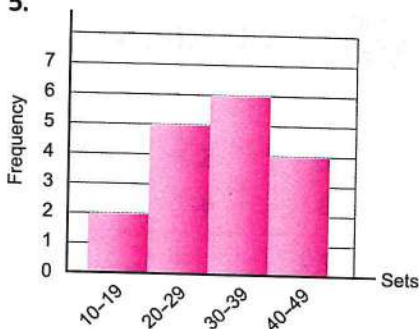
$$\text{G.C.F} = 2 \times 2 = 4$$

2. $4 + 25 - [2 + 1] = 29 - 3 = 26$

3. $y = 5 + 1 = 6$

4. $x = 6 - 2 = 4$

5.



6. The order is: $-3, -2, 5, 8$

7. Median = 3

Mode = 1

4

Giza

1. 1. C 2. C 3. B
4. D 5. D 6. C
7. C 8. B 9. A

2. $\frac{4 \times 2}{7 \times 4} = \frac{8}{28}$, $\frac{3 \times 4}{7 \times 4} = \frac{12}{28}$

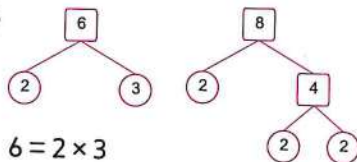
The numbers are: $\frac{9}{28}$, $\frac{10}{38}$, $\frac{11}{28}$

[Answers may vary]

2. $x = 7$, $x = 6$, $x = 5$

[Answers may vary]

3.



$$6 = 2 \times 3$$

$$8 = 2 \times 2 \times 2$$

$$\text{G.C.F} = 2$$

4. $14 \div 2 + 5^2 = 7 + 25 = 32$

5. Minimum value = 2

Maximum value = 20

$$Q_1 = 6$$

Median = 14

$$Q_3 = 18$$

6. The order is:

$-12, -5, 0, |-3|, 17, 21$

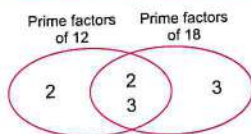
7.

x	0	1	2	3	4
y	2	5	8	11	14

5**Alexandria**

1. 1. D 2. A 3. B
 4. D 5. B 6. B
 7. D 8. B 9. A

2. 1.



$$\text{G.C.F} = 2 \times 3 = 6$$

$$\text{L.C.M} = 2 \times 2 \times 3 \times 3 = 36$$

$$2. [3 \times 4] \div 6 + 3 = 12 \div 6 + 3 \\ = 2 + 3 = 5$$

$$3. y = 5x$$

4. The order is:

$$-2.5, 0, |-1.8|, 3.4$$

5. Minimum value = 2

Maximum value = 18

Median = 10

Lower quartile = 4

upper quartile = 15

$$6. x = 4, x = 3.$$

[Answers may vary]

$$7. 3^2 + 11 = 9 + 11 = 20$$

6**El-Kalyoubia**

1. 1. C 2. C 3. A
 4. A 5. D 6. B
 7. B 8. C 9. B

2. 1. The order is: $-11, -8, -1, 1, 3$
 2. $[10 - 5] + 4 \times 3^2 \div 6$
 $= 5 + 4 \times 9 \div 6$
 $= 5 + 36 \div 6$
 $= 5 + 6 = 11$

$$3. 2x + 5$$

$$4. y = 2 \times 4 + 7 = 8 + 7 = 15$$

$$5. a. y, x \quad b. 6$$

$$6. a. 24 \quad b. 34 \quad c. 27 \quad d. 33$$

$$7. a. 7 \quad b. 9$$

7**El-Sharkia**

1. 1. D 2. B 3. A
 4. D 5. B 6. D
 7. B 8. C 9. D

2. $1. 7 \frac{5}{8}$
 2.

x	0	2	4
y	2	4	6
(x, y)	(0, 2)	(2, 4)	(4, 6)

$$3. [2 \times 3 + 3] - 5 = [6 + 3] - 5 \\ = 9 - 5 = 4$$

4. The median is 8

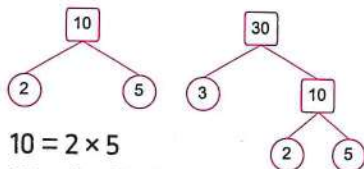
The upper quartile is 9

The range is 6

5. The mean = $\frac{6+8+4+3+7+2}{6}$
= 5

6. $60 - [5 \times 4] \div 2 = 60 - 20 \div 2$
= $60 - 10 = 50$

7.



$$10 = 2 \times 5$$

$$30 = 2 \times 5 \times 3$$

$$\text{G.C.F} = 2 \times 5 = 10$$

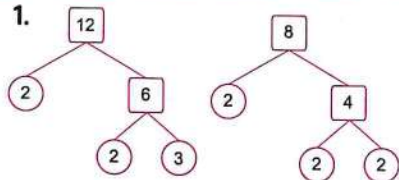
$$\text{L.C.M} = 2 \times 5 \times 3 = 30$$

8

El-Monofia

1. 1. C 2. A 3. B
4. C 5. D 6. B
7. B 8. A 9. A

2. 1.



$$12 = 2 \times 2 \times 3$$

$$8 = 2 \times 2 \times 2$$

$$\text{G.C.F} = 2 \times 2 = 4$$

The greatest number of boxes is 4 boxes

The numerical expression:
 $4(3 + 2)$

2. The order is:

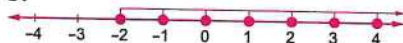
$-20, -14, -11, |-4|, 5, 7$

$$3. [15 - 9] + 3 \times 2^3 = 6 + 3 \times 8$$

$$= 6 + 24 = 30$$

4. a. 4 b. 2 c. 6

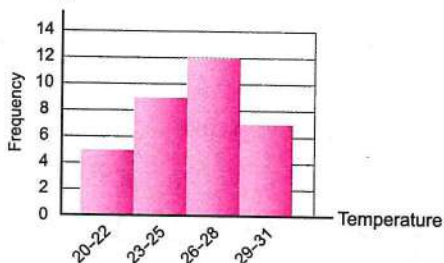
5.



$$6. 4X = 30 - 6 = 24$$

$$x = 24 \div 4 = 6$$

7.



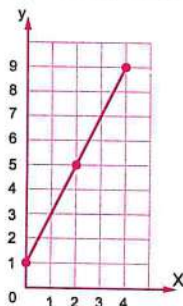
9

El-Gharbia

1. 1. B 2. C 3. C
4. A 5. A 6. B
7. A 8. C 9. C

2. 1.

x	0	2	4
y	1	5	9
(x, y)	(0, 1)	(2, 5)	(4, 9)



2. $-3.71, -3.72$ [Answers may vary]

3. a. 20 b. 3 c. 11

4. • The range = 7

• The mode = 9

• The lower quartile = 4

$$5. 9 + [5^2 - 3] \div 2 = 9 + [25 - 3] \div 2$$

$$= 9 + 22 \div 2$$

$$= 9 + 11 = 20$$

6. a. $m = 7 + 5 = 12$ b. $m = 24 \div 4 = 6$

7. The eaten cake

$$= \frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8} \text{ of the cake}$$

10 El-Dakahlia

1. 1. a. A b. A c. C

$$2. 5 + 4 \times 9 \div 6 = 5 + 36 \div 6$$

$$= 5 + 6 = 11$$

2. 1. a. C b. C c. B

$$2. [5 + 2 \times 2] \times 10 = [5 + 4] \times 10$$

$$= 9 \times 10 = 90$$

3. 1. a. C b. D c. D

$$2. x = 12 - 3 = 9$$

4. 1. a. 9 b. 15 c. 27

2.

x	0	4	6
y	5	9	11

5. 1. a. The mean = $\frac{7+5+3+2+3}{5}$

$$= 4$$

b. The mode = 3

2. a. 6 b. 2 c. 30

11 Ismailia

1. 1. B 2. C 3. D

4. A 5. C 6. B

7. A 8. B 9. D

2. 1. -1, 0, 1

$$2. 2^2 \times 5 - 10 = 4 \times 5 - 10$$

$$= 20 - 10 = 10$$

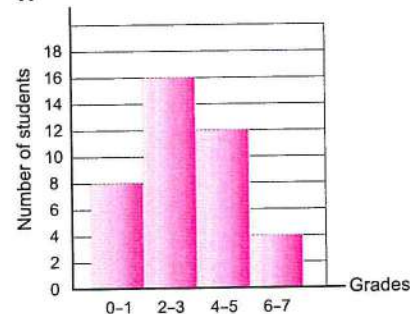
3. Rational numbers

4. $5x - 4$ 5. The dependent variable is y
, the independent variable is x

6. The arithmetic mean

$$= \frac{3+5+2+3+7}{5} = 4$$

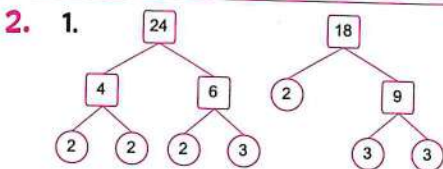
7.



12

Port Said

1. 1. B 2. B 3. A
4. D 5. C 6. A
7. C 8. A 9. A

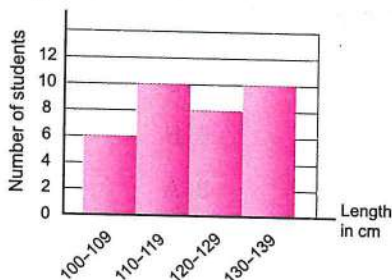


$$24 = 2 \times 2 \times 2 \times 3$$

$$18 = 2 \times 3 \times 3$$

$$\text{L.C.M} = 2 \times 2 \times 2 \times 3 \times 3 = 72$$

2. $10 + [3^2 + 3] \div 4$
 $= 10 + [9 + 3] \div 4$
 $= 10 + 12 \div 4 = 10 + 3 = 13$
 3. $y = 4 \times \frac{1}{4} = 1$
 4. $3x - 5$
 5. $Q_3 = 7$
 6. The order is: 18, 14, -6, -7, -8
 7.



13

Damietta

1. 1. B 2. A 3. C
4. A 5. B 6. B
7. C 8. C 9. B

2. 1. The order is: 3, 5, 7, 10, 10
 The median = 7
 the mean = $\frac{3+5+7+10+10}{5} = 7$

2. The left = $\frac{3}{4} - \frac{1}{3} = \frac{9}{12} - \frac{4}{12}$
 $= \frac{5}{12}$ of a liters

3. $3x = 5 + 4 = 9$
 $x = 9 \div 3 = 3$

4. $5 + [5^2 - 13] = 5 + [25 - 13]$
 $= 5 + 12 = 17$

5. $A = 7 \times 2 \times 3 = 42$
 $B = 5 \times 2 \times 3 = 30$
 $G.C.F = 2 \times 3 = 6$

6.

x	0	1	2
y	0	3	6

7. The minimum value = 0
 The maximum value = 6
 The third quartile = 5

14

Kafr El-Sheikh

1. 1. C 2. B 3. C
4. B 5. B 6. B
7. D 8. A 9. A

Directorates Exams

2. 1. $5\frac{2}{7} - 2\frac{3}{7} = 4\frac{9}{7} - 2\frac{3}{7} = 2\frac{6}{7}$

2. $x = 8 \div 2 = 4$

$3x - 1 = 3 \times 4 - 1 = 12 - 1 = 11$

3. $C = 3 \times 1 + 2 = 5$

4. $5 \times 2 + 1 = 10 + 1$

$= 11$

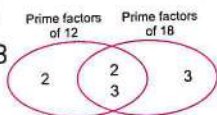
5. G.C.F = 2×3

$= 6$

L.C.M = $2 \times 2 \times 3 \times 3 = 36$

6. $6[2 + 3]$

7. $\bullet 1 \quad \bullet 3 \quad \bullet 2$



15

El-Fayoum

1. 1. B 2. B 3. B
4. C 5. B 6. A
7. D 8. C 9. A

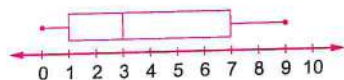
2. 1. min = 0

$Q_1 = 1$

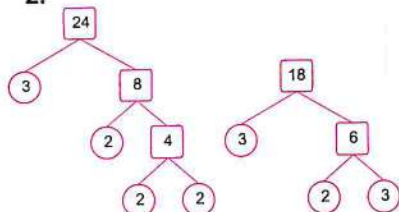
median = 3

$Q_3 = 7$

Max = 9



2.



$24 = 2 \times 2 \times 2 \times 3$

$18 = 2 \times 3 \times 3$

G.C.F = $2 \times 3 = 6$

3. $5^2 + 8 \div [6 - 2] = 25 + 8 \div 4$
 $= 25 + 2 = 27$

4. The order is:

$-4, 0.6, 2\frac{3}{7}, 3\frac{5}{9}, 5\frac{3}{8}$

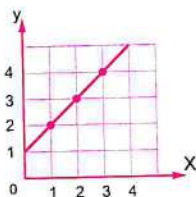
5. The range = 12

6. $x = -1, x = -2$

[Answers May vary]

7.

x	1	2	3
y	2	3	4



16

El-Menia

1. 1. B 2. B 3. C
4. C 5. B 6. A
7. D 8. A 9. D

2. 1. $40 + 5[9 - 7] + 10$

$= 40 + 5 \times 2 + 10$

$= 40 + 10 + 10 = 60$

2. a. 12, 10 b. 2 c. 60

3. a. 2 b. 14 c. 8
d. 4 e. 10

4. The order is: $-14, -7, 5, |-20|$

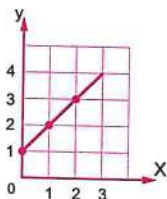
5. Mean: $\frac{5+8+7+6+4}{5} = 6$

Range = 4

6. Yes, because: $116 \div 4 = 29$

7.

x	0	1	2
y	1	2	3
(x, y)	(0, 1)	(1, 2)	(2, 3)



17

Souhag

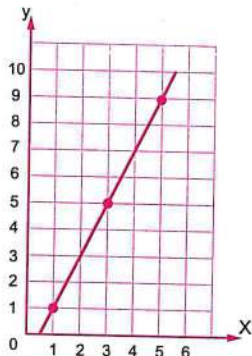
1. 1. B 2. B 3. C
4. A 5. C 6. D
7. A 8. B 9. B

2. $1. m = 2n + 25$

$2. 4\frac{5}{12} - \frac{1}{3} = 4\frac{5}{12} - \frac{4}{12} = 4\frac{1}{12}$

3.

x	1	3	5
y	1	5	9
(x, y)	(1, 1)	(3, 5)	(5, 9)



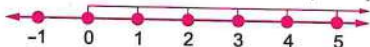
4. The order is:

$-\frac{1}{2}, -\frac{1}{3}, 0, 0.4, |-4|$

5. a. 15, 10 b. 30 c. $5 \times [3 + 2]$

6. $x = 0, x = 1, x = 2$

[Answers may vary]



7. a. 24 b. 19 c. 22

18

Qena

1. 1. C 2. B 3. A
4. D 5. B 6. A
7. C 8. B 9. D

2. 1. The order is:

$-4, -1, 0, 3, |-7|$

2. $x = 11 - 3 = 8$

3. a. 22 b. 20 c. 27

4. $6 + 7 \times [3^2 - 4] = 6 + 7 \times [9 - 4]$
 $= 6 + 7 \times 5$
 $= 6 + 35 = 41$

5. $x = 12$ $y = 18$ G.C.F = 6

6.

x	0	1	2
y	1	3	5

7. The mean

$$= \frac{3+4+4+5+6+7+13}{7} = 6$$

The mode = 4

The median = 5

19

Aswan

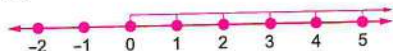
1. 1. D 2. A 3. B
 4. B 5. C 6. C
 7. B 8. A 9. B

2. 1. $3^2 \times 5 - 40 \div 4 = 9 \times 5 - 10$
 $= 45 - 10 = 35$

2. G.C.F = 2

L.C.M = $7 \times 2 \times 5 = 70$

3.

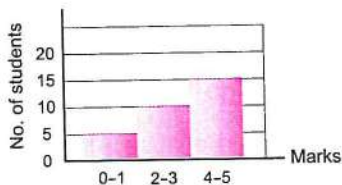


4. $[2^2 + 3] - 2 = [4 + 3] - 2$
 $= 7 - 2 = 5$

5. $x = 12 - 3 = 9$

6. a. The minimum value = 0
 b. The maximum value = 6
 c. The median = 3

7.



20

South Sinai

1. 1. A 2. B 3. C
 4. D 5. A 6. C
 7. C 8. D 9. A

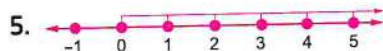
2. 1. 102, 120, 100

2. The order is:

$-3.2, -2.4, -1.5, 1.4, 2.1$

3. $2^2 \div [2 - 1] = 4 \div 1 = 4$

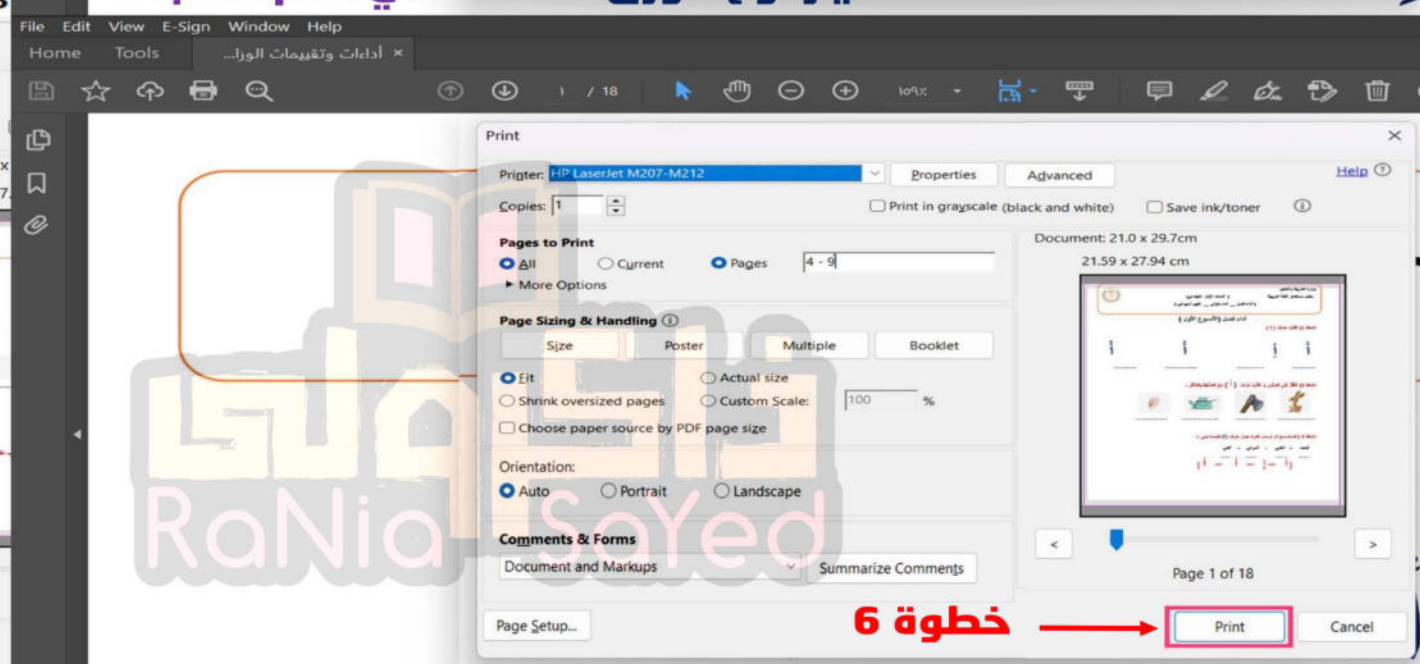
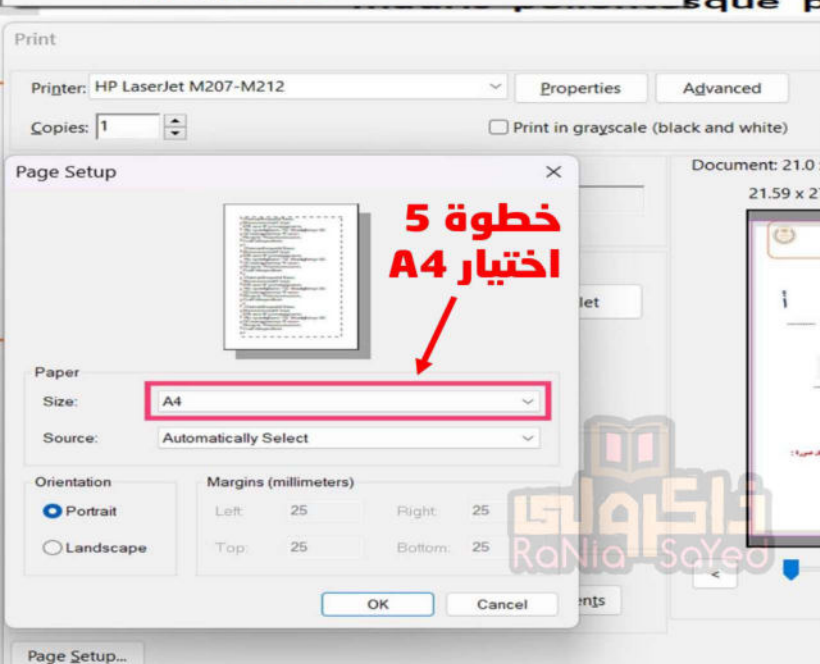
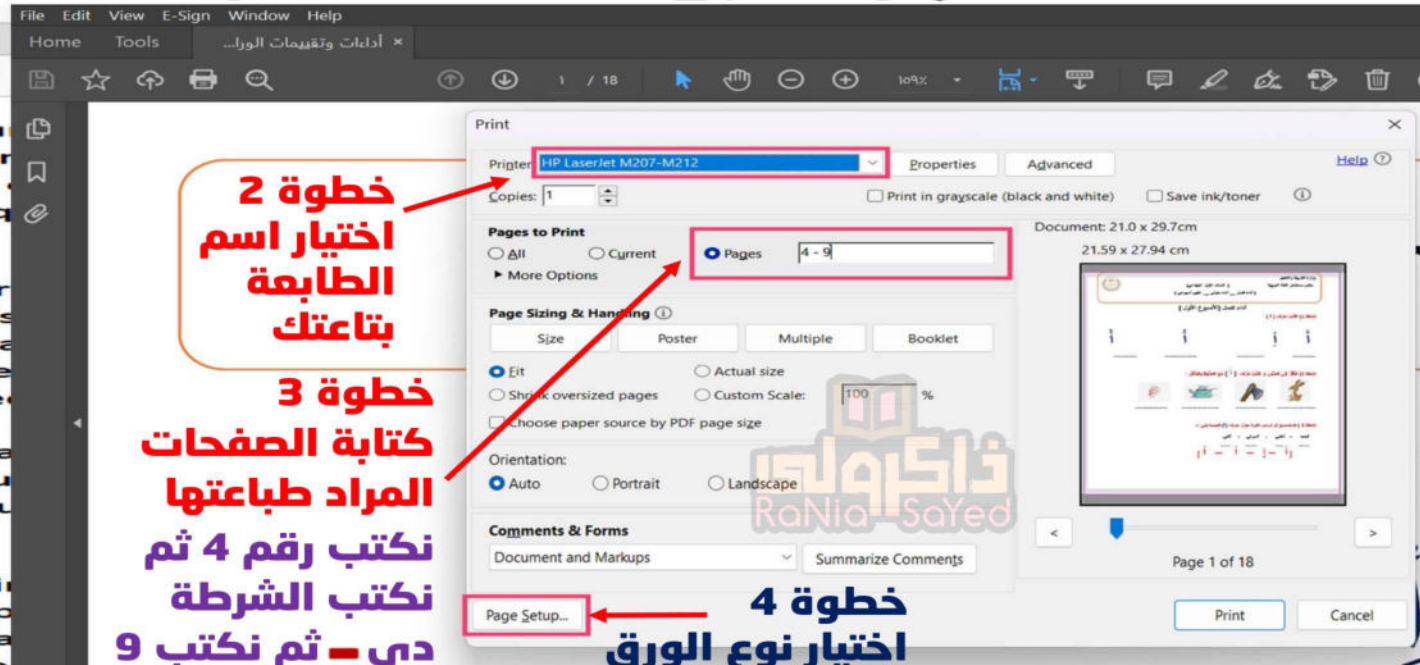
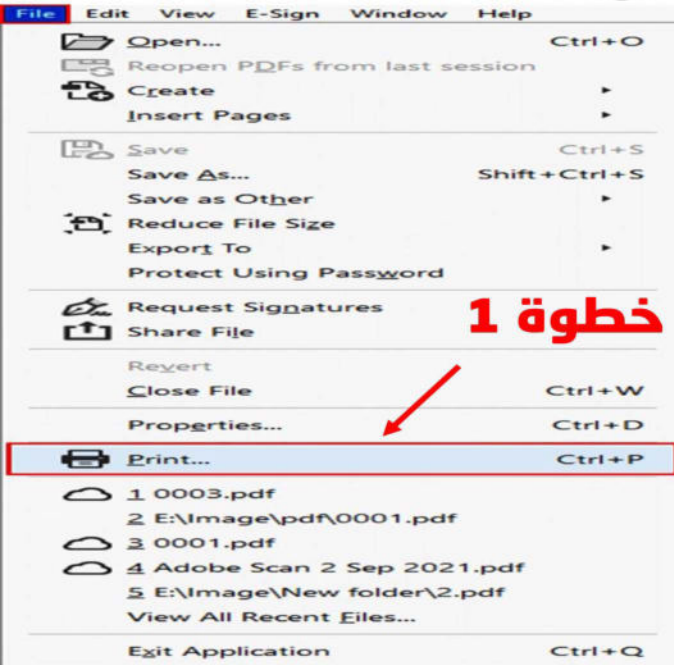
4. $2 \times 3 + 4 = 6 + 4 = 10$



6. The mode = 8

7. The mean = $\frac{1+2+4+6+7}{5} = 4$

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



حمل الآن

مجاناً وحصرياً

امتحانات رقم (2)

الترم الاول



Model Exams

نماذج امتحانات طبقاً لمواصفات الورقة الامتحانية
للعام الدراسي 2024-2025



Model 1

First: Choose the correct answer:

- 1 All the following data are numerical, except
(temperatures ☐ lengths ☐ names ☐ weights)
- 2 The number of terms that make up the algebraic expression
 $5x + 3y + 2$ is (2 ☐ 3 ☐ 5 ☐ 6)
- 3 The inequality that represents all values less than or equal to -7 is
..... ($x > -7$ ☐ $x < -7$ ☐ $x \leq -7$ ☐ $x \geq -7$)
- 4 The mean of the values 4, 9, 7, 1, 1, and 2 is (4 ☐ 2 ☐ 3 ☐ 24)
- 5 Twice the sum of 7 and x is
($2x + 7$ ☐ $2(x + 7)$ ☐ $27 + x$ ☐ $2(2x + 7)$)
- 6 The GCF of 9 and 8 is (9 ☐ 8 ☐ 1 ☐ 72)
- 7 The smallest number that is divisible by 2 and 5 is
(10 ☐ 2 ☐ 5 ☐ 7)
- 8 is a factor of all numbers. (0 ☐ 1 ☐ 2 ☐ 3)
- 9 All even numbers are divisible by (2 ☐ 3 ☐ 5 ☐ 6)

Second: Answer the following:

- 1 Murad has 340 books. Can he make sets of 5 books each without any books remaining? why?

.....

.....

.....

- 2 Arrange the following numbers in ascending and descending orders:

8, -17, |-3|, -9, |12|

.....

.....

.....

- 3 Find the value of the algebraic expression: $4a - 15 \div 3$ if $a = 2$.

.....

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- 4 The box plot for the following values:

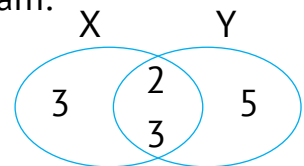
3, 8, 7, 2, 10, 12, 9, 2, 10, 9

- a Maximum value :
- b Lower quartile:
- c Median:
- d Upper quartile:
- e Minimum value:

- 5 If the range of a set of values is 25 and the largest value is 52, then the smallest value is

- 6 Complete the following using the opposite Venn diagram:

- a $X =$ and $Y =$
- b GCF = LCM =



- 7 Adam saves 40 pounds every month. If the amount he saves in (x) months is (y) pounds, then:

- a The equation that represents this situation is
- b Adam saves pounds in a year.

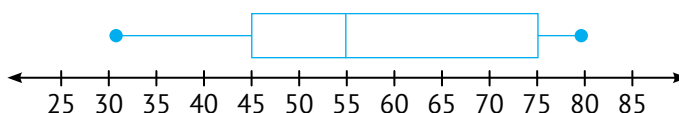
Model 2

First: Choose the correct answer:

- 1 The constant in the expression $4y + 7$ is (y or 7 or 4 or $4y$)
- 2 In the equation $y = 6x - 2$, the dependent variable is
(y or -2 or x or 6)
- 3 The smallest natural number is (-1 or 0 or 1 or 3)
- 4 The mode of the values 5, 3, 2, 5, and 6 is (5 or 2 or 3 or 6)
- 5 represent interval data.
(Dot plots or Bar graphs or Histograms or All the previous)
- 6 The range of the set of values 7, 3, 6, 9, and 5 is (3 or 4 or 6 or 12)
- 7 $9 \times 9 \times 9 \times 9 =$ (4^9 or 9^4 or 9 or 9×4)
- 8 The set of counting numbers the set of natural numbers.
(belongs to or does not belong to or is a subset of or is not a subset of)
- 9 The GCF of two relatively prime numbers is (0 or 1 or 2 or 3)

Second: Answer the following:

- 1 Use the following box plot to complete:



- a Median =
- b Maximum value =
- c Lower quartile =
- d Upper quartile =

- 2 Name 3 solutions in the set of integers for each inequality. Then, graph it on a number line. $m \geq 0$

.....

.....

.....

- 3 Use the order of operations and exponents to solve: $y \div 6 + 5$ at $(y = 24)$.

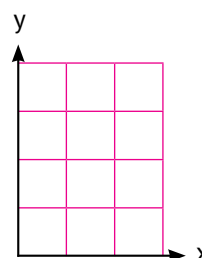
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.....

- 4 Complete the table showing the equation the equation $y = x + 1$, then represent it graphically,

x	0	1	2
y	.....	.....	.....
(x, y)	$(0, \dots\dots\dots)$	.....	.....



.....

.....

- 5 The smallest number that is divisible by both 5 and 6 is
- 6 If the mean of the values 3, 4, 6, x , 7 is 6, then the value of x is
- 7 Omar has 208 candles, and he needs to decorate several tables. If he uses 4 candles per table, will there be any candles left?

.....

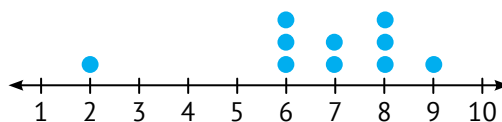
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Model 3

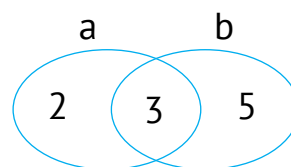
First: Choose the correct answer:

- 1 The equation of "q is six times p, added to 12" is
($q = 6p - 12$ or $q = 6p + 12$ or $p = 6q + 12$ or $p = 6q - 12$)
- 2 The lower quartile for the set of data: 72, 64, 79, 63, 60, 75, 70, 61, and 77 is
(61 or 70 or 62 or 76)
- 3 The number of terms of the expression $3x + 2y - 5$ is
(2 or 3 or 4 or 4)
- 4 The GCF of 10 and 8 is
(2 or 18 or 40 or 80)
- 5 The better measure of central tendency for the opposite data set is
(mean or median or either)



Second: Answer the following:

- 1 The outlier of the values: 1, 4, 52, 3, and 7 is
- 2 Use the opposite Venn diagram to complete:



- a The two numbers are:
 $a =$, $b =$
- b The GCF for the two numbers is
- c The LCM for the two numbers is

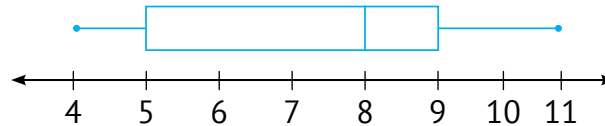
- 3 Evaluate the expression $(3^2 - 5) + 7 \times 2$.

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- 4 Use the following box plot to complete:



- a Median =
- b Maximum value =
- c Lower quartile =
- d Upper quartile =

- 5 Solve the equation: $8m = 32$.

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- 6 Farida made 43 string stars using jute twine. If she wants to sell them all in sets of 3, will there be any jute decorations left? Why and why not?

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- 7 Karim has 48 pencils and 18 crayons. What is the numerical expression of the greatest number of sets that can be made so that all sets include the same number of items?

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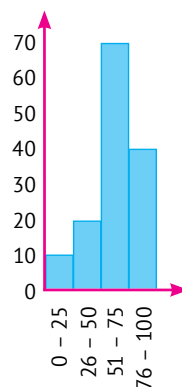
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Model 4

First: Choose the correct answer:

- 1 The GCF of two relatively prime numbers is
(0 or 1 or 2 or their product)
- 2 The coefficient in the algebraic expression $5 + 3x^2 + 1$ is
(5 or $3x^2$ or 3 or 1)
- 3 $|-8| > \dots\dots\dots$
($|-7|$ or $|-8|$ or $|-9|$ or $|-10|$)
- 4 $16 + 24 = 8(2 + \dots\dots\dots)$
(24 or 16 or 2 or 3)
- 5 In the opposite histogram, how many students got more than 50 marks?
(50 or 20 or 70 or 110)
- 6 The median for the set of values 9, 19, 12, 10, and 5 is
(9 or 10 or 5 or 19)
- 7 data is written in the form of words.
(Numerical or Categorical or Mean or Histogram)
- 8 Eight squared is
(3^8 or 4^8 or 8^2 or 2×8)
- 9 A number is divisible by 3 if the sum of its digits is a multiple of
(2 or 3 or 5 or 6)



Second: Answer the following:

- 1 Write the inequality that represents counting numbers:
- 2 Range = -

- 3 Find the GCF and LCM using the Venn diagram for 24 and 36.

.....

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.....

- 4 Diaa saves 150 pounds every month from expenses, so if the amount that he saves in (x) months is (y) pounds, then:

- a The equation that represents this situation is
- b The independent variable is
- c The dependent variable is
- d What Diaa saves in a year is

- 5 Write the verbal expression that represents $5y + 4$.

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- 6 Solve the equation: $3x - 2 = 7$.

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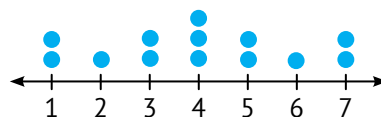
- 7 Use the set of data: 8, 9, 6, 9, 2, 9, and 8 to find:

- a The range =
- b The mode =

Model 5

First: Choose the correct answer:

- 1 The will be the best choice as a measure of the central tendency in the opposite figure.



(mean ☐ median ☐ either)

- 2 The outlier of the values 2, 5, 54, 3, 8, and 6 is

(8 ☐ 2 ☐ 54 ☐ none)

- 3 is a solution of $x < -1$.

(0 ☐ 1 ☐ -2 ☐ 3)

- 4 In the algebraic expression $5x - 4 + 5m + 3$, the two like terms are

(3 and 5m ☐ 3x and 5m ☐ 3 and -4 ☐ 5x and 3)

- 5 If the mode of these value 5, 7, 2, 9, 5, 7, $x + 1$, and 3 is 7, then $x =$

(7 ☐ 5 ☐ 6 ☐ 4)

- 6 Twice the difference of a number and 5 is

($2y + 5$ ☐ $2y - 5$ ☐ $2(y + 5)$ ☐ $2(y - 5)$)

- 7 The sum of any two opposite numbers is (1 ☐ 2 ☐ 0 ☐ -1)

- 8 If the Ones digit of a number is 0 or 5, then the number is divisible by

(2 ☐ 3 ☐ 4 ☐ 5)

- 9 are numerical data.

(Blood types ☐ Birthplaces ☐ Ages ☐ Preferred colors)

Second: Answer the following:

- 1 The algebraic expression of "double of x added to 4 equals y " is

.....

2 Solve each of the following equations:

a $16 = n - 3$

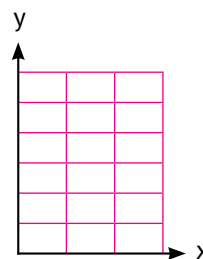
b $70 = 50 + t$

3 Name 3 solutions of $X \leq 6$ and graph them.

4 Complete the following table, then make the graph.

The equation: $y = 3x - 3$

x	1	2	3
y	.....	.....	.....
(x, y)	(1, .....)	.....	.....



5 Draw the box plot for the following data:

5, 7, 13, 11, 2, 1, 2, 14, 16, 10, 3

Then find: Minimum value – Q1 – Median – Q3 – Maximum value

6 Murad saves 360 pounds every month. If the amount he saves in (x) month is (y) pounds, then

a The equation that represent this situation is

b The independent variable is, and the dependent variable is

c What Murad saves in a year is

7 Find the GCF and LCM by using the Venn diagram of 18 and 12.

Model Exams

Model 1

First

- | | | |
|---------|--------------|---------------|
| 1 names | 2 3 | 3 $x \leq -7$ |
| 4 4 | 5 $2(x + 7)$ | 6 1 |
| 7 10 | 8 1 | 9 2 |

Second

- 1 Yes because 340 is divisible by 5.
- 2 Ascending: $-17, -9, |-3|, 8, |12|$
Descending: $|12|, 8, |-3|, -9, -17$
- 3 $4 \times 2 - 15 \div 3 = 3$
- 4 a 10 b 3 c 7
d 10 e 2
- 5 27
- 6 a $X = 18$ $Y = 30$
b GCF = 6 LCM = 90
- 7 a $y = 40x$ b 120

Guide Answers

Model 2

First

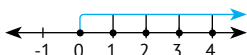
- 1 7 2 y 3 0
4 5 5 Histograms 6 6
7 9^4 8 is a subset of 9 1

Second

- 1 a 55 b 80 c 45

d 75

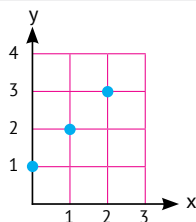
- 2 3, 4, 5



- 3 $24 \div 6 + 5 = 9$

4

x	0	1	2
y	1	2	3
(x, y)	(0, 1)	(1, 2)	(2, 3)



- 5 30

- 6 10

- 7 No, because 208 is divisible by 4.

Model 3

First

- 1 $q = 6p + 12$ 2 62 3 3
4 2 5 median 6 2
7 45 8 7 9 11

Second

- 1 52
2 a $a = 6$, $b = 15$ b 3 c 30
3 $4 + 14 = 18$
4 a 8 b 11 c 5
d 9
5 $m = 4$
6 Yes because 43 is not divisible by 3.
7 Numerical expression = $6(8 + 3)$

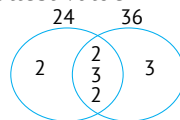
Model 4

First

- 1 1 2 3 3 $|-7|$
4 3 5 110 6 10
7 Categorical 8 8^2 9 3

Second

- 1 $x > 0$ or $x \geq 1$
2 Range = greatest value – smallest value
3 GCF = 12
LCM = 72
4 a $y = 150x$ b x
c y d 1,800
5 5 times a number (y), added to 4
6 $3x = 9$ $x = 3$
7 a 7 b 9



Model 5

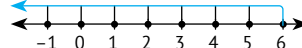
First

- 1 either 2 54 3 -2
4 3 and -4 5 6 6 $2(y - 5)$
7 0 8 5 9 Ages

Second

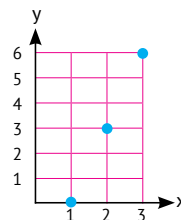
- 1 $y = 2x + 4$
2 a $n = 19$ b $t = 20$

- 3 6, 5, 4

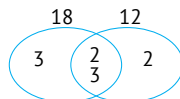


4

x	1	2	3
y	0	3	6
(x, y)	(1, 0)	(2, 3)	(3, 6)



- 5 Min = 1 Max = 16 Median: 7
Q1 = 2 Q3 = 13
6 a $y = 360x$ b x, y c 4,320
7 GCF = 16
LCM = 36



حمل الآن

مجانا وحصريا

امتحانات رقم (3)

الترم الاول



1 Choose the correct answer:

- a All of the following data are categorical except
 a) blood type b) weight c) favorite color d) nationality
- b The number 7.48 belongs to set of numbers.
 a) natural b) counting c) integers d) rational
- c The number 5,240 is divisible by the following numbers except
 a) 2 b) 3 c) 5 d) 10
- d The G.C.F of 24 and 18 is
 a) 6 b) 54 c) 3 d) 18
- e The mean of 5, 6, 4, 7, k is 3 then k =
 a) 4 b) 8 c) 3 d) 7
- f The additive inverse of $|-3|$ is
 a) 3 b) -3 c) 4 d) 1
- g The number is one of solutions of the inequality: $x < 10$.
 a) -10 b) 11 c) 10.1 d) 10
- h If a person works for h hours and earns a total of m pounds, which variable is the dependent?
 a) h b) m c) $h \times m$ d) $m + h$
- i The mode of the values: 5, 2, 5, 7, 5, 4, 2, and 5 is
 a) 2 b) 3 c) 4 d) 5

2 Answer the following:

- a Solve the equation: $4x + 7 = 35$

.....

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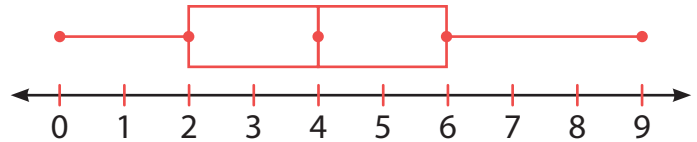
- b** Rewrite in an ascending order:

$$4.3, -2\frac{1}{2}, 0, -4\frac{3}{7}, 3\frac{1}{4}$$

- c** From the opposite box plot, complete:

• The minimum value is:

• The lower quartile is:



- d** A teacher distributes 18 pens and 24 notebooks into identical bags, each bag containing the same number of pens and the same number of notebooks. Find the greatest number of bags that can be made, and write the numerical expression that represents the situation.

- e** Write an equation using variables x and y , where x is an independent variable, and the rule is multiplied by 5.

- f** Use the order of mathematical operations to evaluate:

$$6^2 - 3 \times 4 + 2$$

- g** Find three solutions for inequality: $x \leq -3$

1 Choose the correct answer:

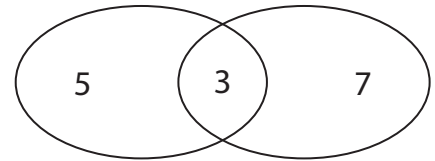
- a** The is the middle value of the data set after arranging it.
a) mean b) median c) mode d) range
- b** The constant in the expression $7y + 2$ is
a) 7 b) 2 c) y d) 0
- c** The number that satisfies the inequality $x < -2$ is
a) 2 b) -5 c) -1 d) 5
- d** The greatest negative integer number is
a) 0 b) -1 c) -2 d) 1
- e** If $m - 1 = 6$, then, $m =$
a) -1 b) 1 c) 9 d) 7
- f** The following data are categorical data except the
a) name b) age c) birth place d) blood species
- g** The number that is divisible by 4 in the following is
a) 450 b) 108 c) 106 d) 111
- h** $4 \times 4 \times 4 \times 4 \times 4 =$
a) 4^5 b) 20 c) 44 d) 5×4
- i** The dependent variable in the equation $M = 2L + 3$ is
a) M b) L c) 2 d) 3

2 Answer the following:

- a** Arrange the following numbers ascendingly
 $6, -8, -7, -9, -1, -5$
.....
.....
.....
- b** Write an equation use the variables x and y , where x is the independent, represent the clue "multiply by 7 and add 4", then substitute $x = \frac{1}{7}$ to evaluate y .
.....
.....
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- c Evaluate the expression $5x^2 + 8 \div (6 - 4) \div 2$ at $x = 2$

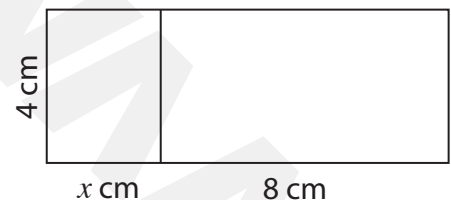
- d From the opposite Venn diagram,
find (G.C.F) and (L.C.M)



- e For the following data: 22, 10, 5, 13, 15.
Find the mean and the range.

- f Find the result of $4\frac{5}{12} - \frac{1}{3}$

- g write the algebraic expression to find the area of
the opposite figure:

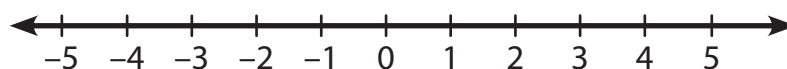


1 Choose the correct answer:

- a** If 80 is the greatest value of data set, and the range = 42, then the smallest value of this set is
- a) 42 b) 80 c) 122 d) 38
- b** The set of integers the set of rational numbers
- a) belongs b) does not belong
- c) is a subset of d) is not a subset of
- c** The G.C.F of two relatively prime numbers is
- a) 0 b) 1 c) 2 d) 3
- d** The mathematical sentence $x > 4$ represents
- a) an equation b) a variable c) an inequality d) an expression
- e** The dependent variable in $y = 2x$ is
- a) x b) y c) 2 d) $2x$
- f** $|-8| + |5| =$
- a) -5 b) 8 c) 13 d) 3
- g** The number whose all prime factors are 2, 2 and 3 is
- a) 6 b) 8 c) 12 d) 18
- h** $2^5 =$
- a) 5×5 b) $2 \times 2 \times 2 \times 2 \times 2$ c) $5 \times 5 \times 5$ d) 10
- i** Which graph makes it easier to show the lower quartile?
- a) dot plot b) box plot c) bar graph d) histogram

2 Answer the following:

- a** Represent the solution for the inequality $y \geq -1$ in the set of integers using number line.

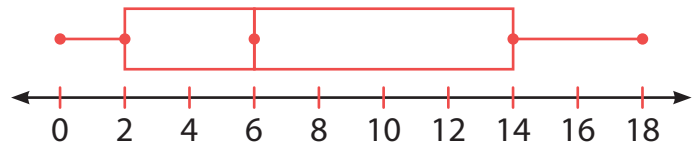


- b** Eslam had $1\frac{5}{8}$ L of juice, he drank $1\frac{1}{3}$ L of it. How many liters of juice are left?

- c** Find the G.C.F and L.C.M of 12 and 18 using the Venn diagram.

- d** Complete using the opposite box plot:

- Lower quartile =
- Upper quartile =
- Median =



- e** Use the order of mathematical operations to simplify and evaluate
 $26 + 5 \times (2^2 - 3) + 5$

- f** For the equation $M = 3 \times N$, find the dependent variable and the value of the variable M when $N = 7$.

- g** Write the following numbers in an ascending order:

$$-1.25, -3, \frac{1}{2}, -2, -1, 0, 3$$

1 Choose the correct answer:

- a) The median of the values 10, 14, 8, 4 and 18 is
 a) 4 b) 10 c) 12 d) 14
- b) The graph that would display the data in the form of equal intervals is
 a) histogram b) box plot c) dot plot d) bar graph
- c) is one of categorical data.
 a) school name b) age c) tall d) weight
- d) The G.C.F of two relatively prime numbers is
 a) 0 b) 1 c) 2 d) 3
- e) The range of these values 31, 39, 30, 61 and 35 is
 a) 11 b) 30 c) 31 d) 41
- f) The mean of the values $k + 1$, $k + 2$, $k + 3$ is 4 then $k =$
 a) 1 b) 2 c) 3 d) 4
- g) $|-7| + |2| =$
 a) 7 b) 8 c) 9 d) 18
- h) If $m - 5 = 4$, then, $m =$
 a) -1 b) 1 c) 9 d) 7
- i) The ordered pair (5,) satisfies the equation $y = 3x + 4$
 a) 15 b) 19 c) 21 d) 24

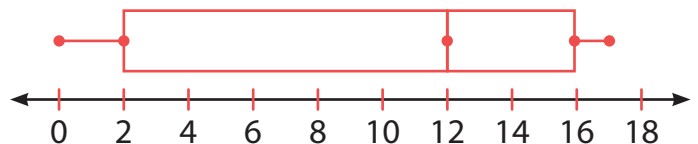
2 Answer the following:

- a) Complete using the opposite box plot

minimum value =

upper quartile =

Median =



- b) Find the value of the numerical expression $(18 - 9) + 4 \times 4$

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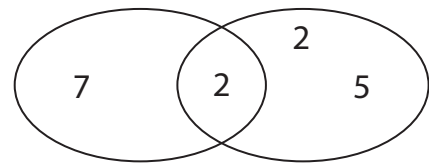
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c From the opposite Venn diagram ,complete:

The two numbers are and prime factors of 14 Prime factors of 20

The G.C.F is

The L.C.M is



d Use the equation $A = 3 \times B$ to complete:

The dependent variable is

The independent variable is

The value of A when B = 9 is

e From the following numbers, Complete:

129 , 51 , 720 , 500 and 514

The numbers which divisible by 2 are

The numbers which divisible by 3 are

f Find 4 possible solutions for the inequality:

$x \geq -1$ in the integer numbers

the solutions are:

g Find the result of: $5\frac{3}{7} + 2\frac{1}{2}$

.....

.....

1 Choose the correct answer:

- a** The mean of 5 values is 6, then the sum of these values is
 a) 30 b) 45 c) 50 d) 90
- b** $9 - 4 \div (4 - 2)^2 = \dots\dots\dots$
 a) 1 b) 2 c) 4 d) 8
- c** The set of integers the set of natural numbers.
 a) belongs b) does not belong
 c) is a subset of d) is not a subset of
- d** How tall pupils in your class? is question.
 a) statistical b) not statistical c) categorical d) otherwise
- e** If 50 is the greatest value of data set, and the range = 30, then the smallest value of this set is
 a) 50 b) 20 c) 30 d) 80
- f** If $x + 6 = 8$, then $\frac{1}{2}x = \dots\dots\dots$.
 a) 1 b) 3 c) 4 d) 9
- g** Which graph makes it easier to show the median?
 a) histogram b) box plot c) dot plot d) bar graph
- h** The constant in the expression $9y + 7$ is
 a) 9 b) 7 c) y d) 0
- i** The distance between 2 and -2 on the number line is units.
 a) 0 b) 2 c) 4 d) -2

2 Answer the following:

- a** Write 3 numbers divisible by 3 and 5 together.

.....

.....

.....

- b** Write the following numbers in an ascending order:

$-5, 2\frac{1}{2}, 0, -4, 5$

- c** Find the value of the algebraic expression

$t^2 + 2 \times 5 - 6$ when $t = 2$

- d** Find the G.C.F for 12 chocolates and 16 pieces of cake, and write the expression which shows identical boxes of same number of chocolates and cakes.

- e** Write the equation using the variables y and x where x is independent variable representing the clue "Adding 52.8, then divide the result by 4"

- f** Find the arithmetic mean for 17, 15, 8, 10, 15

- g** Solve the equation $4x + 6 = 30$ in $\mathbb{Z}$

1 Choose the correct answer:

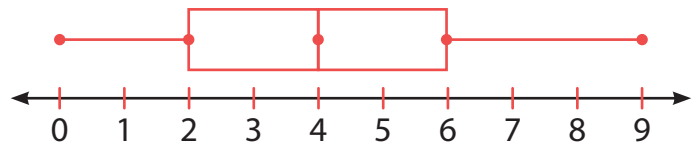
- a) All of the following data are categorical except
 a) blood type b) **weight** c) favorite color d) nationality
- b) The number 7.48 belongs to set of numbers.
 a) natural b) counting c) integers d) **rational**
- c) The number 5,240 is divisible by the following numbers except
 a) 2 b) **3** c) 5 d) 10
- d) The G.C.F of 24 and 18 is
 a) **6** b) 54 c) 3 d) 18
- e) The mean of 5, 6, 4, 7, k is 3 then $k =$
 a) 4 b) 8 c) **3** d) 7
- f) The additive inverse of $|-3|$ is
 a) 3 b) **-3** c) 4 d) 1
- g) The number is one of solutions of the inequality: $x < 10$.
 a) **-10** b) 11 c) 10.1 d) 10
- h) If a person works for h hours and earns a total of m pounds, which variable is the dependent?
 a) h b) **m** c) $h \times m$ d) $m + h$
- i) The mode of the values: 5, 2, 5, 7, 5, 4, 2, and 5 is
 a) 2 b) 3 c) 4 d) **5**

2 Answer the following:

- a) Solve the equation: $4x + 7 = 35$
 $4x = 35 - 7$
 $4x = 28$
 $x = 7$
- b) Rewrite in an ascending order:
 $4.3, -2\frac{1}{2}, 0, -4\frac{3}{7}, 3\frac{1}{4}$
The order: $-4\frac{3}{7}, -2\frac{1}{2}, 0, 3\frac{1}{4}, 4.3$

c From the opposite box plot, complete:

- The minimum value is: 0
- The lower quartile is: 2



d A teacher distributes 18 pens and 24 notebooks into identical bags, each bag containing the same number of pens and the same number of notebooks. Find the greatest number of bags that can be made, and write the numerical expression that represents the situation.

We must get the G.C.F of 18 and 24

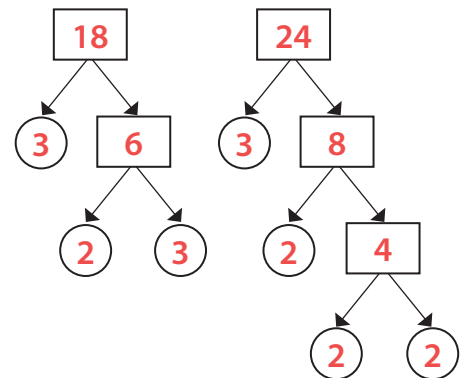
$$18 = 3 \times 2 \times 3$$

$$24 = 3 \times 2 \times 2 \times 2$$

G.C.F is: 6

The greatest number of bags is 6

The numerical expression is: $6(3 + 4)$



e Write an equation using variables x and y , where x is an independent variable, and the rule is multiplied by 5.

The equation is: $y = 5x$

f Use the order of mathematical operations to evaluate:

$$6^2 - 3 \times 4 + 2$$

$$\begin{aligned} & 6^2 - 3 \times 4 + 2 \\ &= 36 - 3 \times 4 + 2 \\ &= 36 - 12 + 2 \\ &= 24 + 2 = 26 \end{aligned}$$

g Find three solutions for inequality: $x \leq -3$

$-3, -4, -5$

1 Choose the correct answer:

- a** The is the middle value of the data set after arranging it.
 a) mean b) **median** c) mode d) range
- b** The constant in the expression $7y + 2$ is
 a) 7 b) **2** c) y d) 0
- c** The number that satisfies the inequality $x < -2$ is
 a) 2 b) **-5** c) -1 d) 5
- d** The greatest negative integer number is
 a) 0 b) **-1** c) -2 d) 1
- e** If $m - 1 = 6$, then, $m =$
 a) -1 b) 1 c) 9 d) **7**
- f** The following data are categorical data except the
 a) name b) **age** c) birth place d) blood species
- g** The number that is divisible by 4 in the following is
 a) 450 b) **108** c) 106 d) 111
- h** $4 \times 4 \times 4 \times 4 \times 4 =$
 a) **4^5** b) 20 c) 44 d) 5×4
- i** The dependent variable in the equation $M = 2L + 3$ is
 a) **M** b) L c) 2 d) 3

2 Answer the following:

- a** Arrange the following numbers ascendingly
 $6, -8, -7, -9, -1, -5$
The order: $-9, -8, -7, -5, -1, 6$
- b** Write an equation use the variables x and y , where x is the independent, represent the clue "multiply by 7 and add 4", then substitute $x = \frac{1}{7}$ to evaluate y .
The equation: $y = 7x + 4$
 $y = 7 \times \frac{1}{7} + 4 = 1 + 4 = 5$

- c Evaluate the expression $5x^2 + 8 \div (6 - 4) \div 2$ at $x = 2$

$$5 \times 2^2 + 8 \div (6 - 4) \div 2$$

$$5 \times 4 + 8 \div 2 \div 2$$

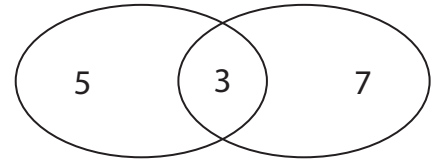
$$20 + 4 \div 2$$

$$20 + 2 = 22$$

- d From the opposite Venn diagram,
find (G.C.F) and (L.C.M)

G.C.F: 3

L.C.M: 105



- e For the following data: 22, 10, 5, 13, 15.
Find the mean and the range.

$$\text{The mean} = \frac{22 + 10 + 5 + 13 + 15}{5} = 13$$

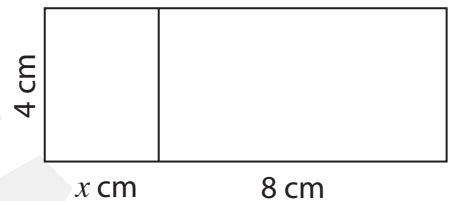
$$\text{The range} = 17$$

- f Find the result of $4\frac{5}{12} - \frac{1}{3}$

$$4\frac{5}{12} - \frac{1}{3} = 4\frac{5}{12} - \frac{4}{12} = 4\frac{1}{12}$$

- g write the algebraic expression to find the area of
the opposite figure:

$$\text{the expression: } (x + 8) \times 4 = (4x + 32) \text{ cm}^2$$

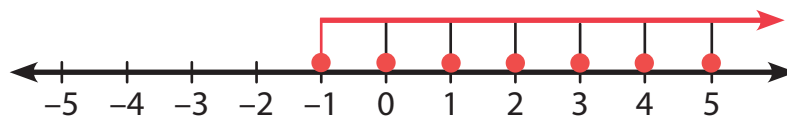


1 Choose the correct answer:

- a) If 80 is the greatest value of data set, and the range = 42, then the smallest value of this set is
 a) 42 b) 80 c) 122 d) 38
- b) The set of integers the set of rational numbers
 a) belongs b) does not belong
 c) is a subset of d) is not a subset of
- c) The G.C.F of two relatively prime numbers is
 a) 0 b) 1 c) 2 d) 3
- d) The mathematical sentence $x > 4$ represents
 a) an equation b) a variable c) an inequality d) an expression
- e) The dependent variable in $y = 2x$ is
 a) x b) y c) 2 d) $2x$
- f) $|-8| + |5| =$
 a) -5 b) 8 c) 13 d) 3
- g) The number whose all prime factors are 2, 2 and 3 is
 a) 6 b) 8 c) 12 d) 18
- h) $2^5 =$
 a) 5×5 b) $2 \times 2 \times 2 \times 2 \times 2$ c) $5 \times 5 \times 5$ d) 10
- i) Which graph makes it easier to show the lower quartile?
 a) dot plot b) box plot c) bar graph d) histogram

2 Answer the following:

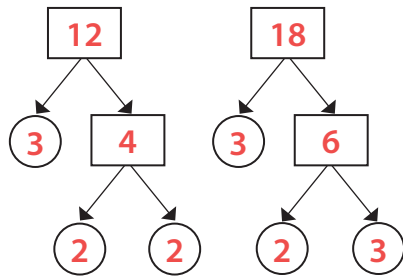
- a) Represent the solution for the inequality $y \geq -1$ in the set of integers using number line.



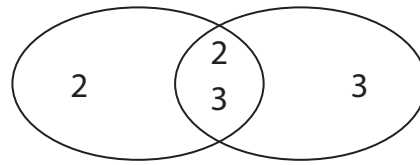
- b) Eslam had $1\frac{5}{8}$ L of juice, he drank $1\frac{1}{3}$ L of it. How many liters of juice are left?

The left liters of juice = $1\frac{5}{8} - 1\frac{1}{3} = 1\frac{15}{24} - 1\frac{8}{24} = \frac{7}{24}$ of a liter.

- c Find the G.C.F and L.C.M of 12 and 18 using the Venn diagram.



Prime factors of 12 Prime factors of 18

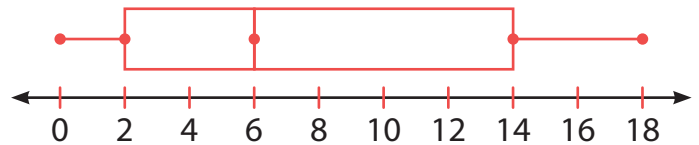


The G.C.F is : 6

The L.C.M is: 36

- d Complete using the opposite box plot:

- Lower quartile = 2
- Upper quartile = 14
- Median = 6



- e Use the order of mathematical operations to simplify and evaluate

$$\begin{aligned}
 & 26 + 5 \times (2^2 - 3) + 5 \\
 &= 26 + 5 \times (4 - 3) + 5 \\
 &= 26 + 5 \times 1 + 5 \\
 &= 26 + 5 + 5 = 31 + 5 = 36
 \end{aligned}$$

- f For the equation $M = 3 \times N$, find the dependent variable and the value of the variable M when $N = 7$.

The dependent variable is M

The value of M will be $3 \times 7 = 21$

- g Write the following numbers in an ascending order:

$$-1.25, -3, \frac{1}{2}, -2, -1, 0, 3$$

The order is: $-3, -2, -1.25, -1, 0, \frac{1}{2}, 3$

1 Choose the correct answer:

- a The median of the values 10, 14, 8, 4 and 18 is
 a) 4 b) 10 c) 12 d) 14
- b The graph that would display the data in the form of equal intervals is
 a) histogram b) box plot c) dot plot d) bar graph
- c is one of categorical data.
 a) school name b) age c) tall d) weight
- d The G.C.F of two relatively prime numbers is
 a) 0 b) 1 c) 2 d) 3
- e The range of these values 31, 39, 30, 61 and 35 is
 a) 11 b) 30 c) 31 d) 41
- f The mean of the values $k + 1$, $k + 2$, $k + 3$ is 4 then $k =$
 a) 1 b) 2 c) 3 d) 4
- g $|-7| + |2| =$
 a) 7 b) 8 c) 9 d) 18
- h If $m - 5 = 4$, then, $m =$
 a) -1 b) 1 c) 9 d) 7
- i The ordered pair (5,) satisfies the equation $y = 3x + 4$
 a) 15 b) 19 c) 21 d) 24

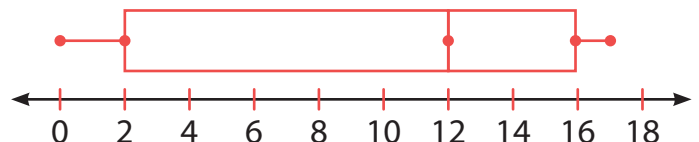
2 Answer the following:

- a Complete using the opposite box plot

minimum value = 0

upper quartile = 16

Median = 12



- b Find the value of the numerical expression $(18 - 9) + 4 \times 4$

$$= (18 - 9) + 4 \times 4$$

$$= 9 + 4 \times 4 = 9 + 16 = 25$$

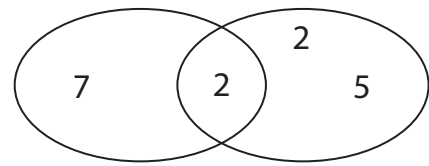
- c From the opposite Venn diagram ,complete:

The two numbers are **14** and **20**

The G.C.F is **2**

The L.C.M is **140**

prime factors of 14 Prime factors of 20



- d Use the equation $A = 3 \times B$ to complete:

The dependent variable is **A**

The independent variable is **B**

The value of A when B = 9 is **27**

- e From the following numbers, Complete:

129 , 51 , 720 , 500 and 514

The numbers which divisible by 2 are **514 , 720 , 500**

The numbers which divisible by 3 are **129 , 51 , 720**

- f Find 4 possible solutions for the inequality:

$x \geq -1$ in the integer numbers

the solutions are: **-1 , 0 , 1 , 2**

- g Find the result of: $5\frac{3}{7} + 2\frac{1}{2}$

$$5\frac{3}{7} + 2\frac{1}{2} = 5\frac{6}{14} + 2\frac{7}{14} = 7\frac{13}{14}$$

1 Choose the correct answer:

- a** The mean of 5 values is 6, then the sum of these values is
 a) 30 b) 45 c) 50 d) 90
- b** $9 - 4 \div (4 - 2)^2 = \dots\dots\dots$
 a) 1 b) 2 c) 4 d) 8
- c** The set of integers the set of natural numbers.
 a) belongs b) does not belong
 c) is a subset of d) is not a subset of
- d** How tall pupils in your class? is question.
 a) statistical b) not statistical c) categorical d) otherwise
- e** If 50 is the greatest value of data set, and the range = 30, then the smallest value of this set is
 a) 50 b) 20 c) 30 d) 80
- f** If $x + 6 = 8$, then $\frac{1}{2}x = \dots\dots\dots$
 a) 1 b) 3 c) 4 d) 9
- g** Which graph makes it easier to show the median?
 a) histogram b) box plot c) dot plot d) bar graph
- h** The constant in the expression $9y + 7$ is
 a) 9 b) 7 c) y d) 0
- i** The distance between 2 and -2 on the number line is units.
 a) 0 b) 2 c) 4 d) -2

2 Answer the following:

- a** Write 3 numbers divisible by 3 and 5 together.
 15, 30, 45
- b** Write the following numbers in an ascending order:
 $-5, 2\frac{1}{2}, 0, -4, 5$
 The order is: $-5, -4, 0, 2\frac{1}{2}, 5$

- c Find the value of the algebraic expression

$$t^2 + 2 \times 5 - 6 \text{ when } t = 2$$

$$2^2 + 2 \times 5 - 6$$

$$4 + 10 - 6 = 14 - 6 = 8$$

- d Find the G.C.F for 12 chocolates and 16 pieces of cake, and write the expression which shows identical boxes of same number of chocolates and cakes.

$$\text{The G.C.F} = 4, \text{ the expression: } 4 \times (3 + 4)$$

- e Write the equation using the variables y and x where x is independent variable representing the clue "Adding 52.8, then divide the result by 4"

$$y = (x + 52.8) \div 4$$

- f Find the arithmetic mean for 17, 15, 8, 10, 15

$$\text{The arithmetic mean} = \frac{17+15+8+10+15}{5} = 13$$

- g Solve the equation $4x + 6 = 30$ in $\mathbb{Z}$

$$4x + 6 = 30$$

$$4x = 24$$

$$x = 6$$

حمل الآن

مجاناً وحصرياً

امتحانات رقم (4)

الترم الاول



Prim 6 - Model No

1

[1] [A] Choose the correct answer:

(1) $|-1.4|$ -1.4

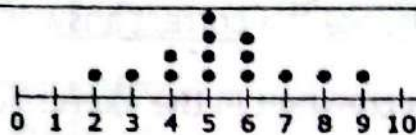
- a) $>$ b) $=$ c) $<$ d) $\leq$

(2) The expression represents (Subtract 5 from number Y) is

- a) $Y-5$ b) $Y+5$ c) $5-Y$ d) $5Y$

(3) From the opposite dot plot:

The range is



- a) 2 b) 5 c) 7 d) 9

[B] Find the result of: $(10-5) + 4 \times 3^2 \div 6$ 

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[2] [A] Choose the correct answer:

(1) The number of integers between -2 and its opposite is

- a) -1 b) 0 c) 3 d) 4

(2) The following data are numerical except

- a) Height b) Weight c) Blood type d) Age

(3) The exponent of 6^2 is

- a) 6 b) 2 c) 36 d) 62

[B] Find the value of the algebraic expression:

$$(5 + 2b) \times 10 \text{ when the value of } b = 2$$

[3] [A] Choose the correct answer:

(1) The constant in the expression: $5X + 4$ is

- a) 5 b) X c) 4 d) 9

(2) The upper quartile of the values (3 , 1 , 4 , 8 , 5 , 7 , 11) is

- a) 1 b) 3 c) 7 d) 8

(3) The value of variable X which satisfy the inequality $X < -2$ is

- a) 0 b) 2 c) -1 d) -3

[B] Solve the equation: $X + 3 = 12$



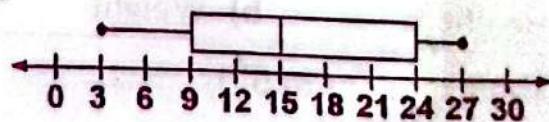
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[4] [A] From the opposite box plot find:

① The lower quartile is

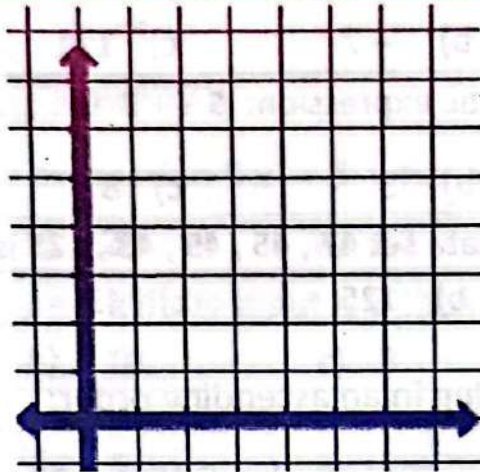
② The median is

③ The maximum value is



[B] Complete the following table according to the equation: $Y = X + 5$

X	0	4	
Y			11



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[5] [A] From the following set of values 7, 5, 3, 2, 3 find:

① The arithmetic mean

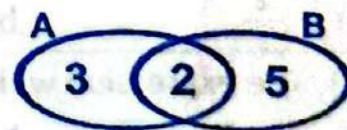
② The Mode

[B] From the opposite Venn diagram:

① Number A =

② G.C.F =

③ L.C.M =



End of the questions

Prim 6 - Model No 2

[1] [A] Choose the correct answer:

(1) $|-7| = \dots\dots\dots$

- a) 7 b) -7 c) 171 d) 0

(2) The constant in the expression: $5Y + 3$ is

- a) 5 b) 3 c) 8 d) Y

(3) The outlier of a data set 47, 45, 49, 43, 125 is.....

- a) 82 b) 125 c) 43 d) 48

[B] Arrange the following in an ascending order:

$$-\frac{1}{2}, 0, |-5|, \frac{3}{5}, 2^3$$

.....

.....

.....

.....



[2] [A] Choose the correct answer:

(1) $\frac{3}{5} - \frac{1}{2} = \dots\dots\dots$

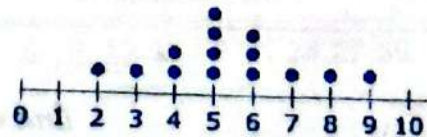
- a) $\frac{2}{3}$ b) $\frac{1}{5}$ c) $\frac{1}{10}$ d) $\frac{4}{7}$

(2) The expression which represents (Number Y subtracted from 5) is

- a) $Y + 5$ b) $Y - 5$ c) $5Y$ d) $5 - Y$

(3) From the opposite dot plot:

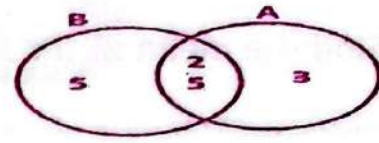
The balance point is



- a) 4 b) 5 c) 6 d) 9

[B] Answer the following questions:

In the opposite Venn diagram:



① GCF =

② LCM =

[3] [A] Choose the correct answer:

(1) The value of the expression $5x^2 + 5$ when $x = 2$ is

- a) 30 b) 25 c) 52 d) 15

(2) In the equation $y = 2x$ if the input is 6 then the output is

- a) 12 b) 10 c) 8 d) 0

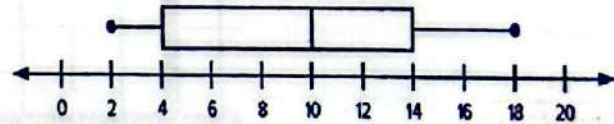
(3) The number is divisible by both 4 and 6 .

- a) 220 b) 750 c) 132 d) 93

[B] In the opposite Box plot:

① The median =

② The range =



[4]

[A] Find the result of: $(10 - 5) + 4 \times 3^2 \div 6$

.....

.....

[B] Solve the equation: $X + 2 = 7$

.....

.....



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[5]

[A] Find the mean of the following data : 4 , 20 , 6 and 10

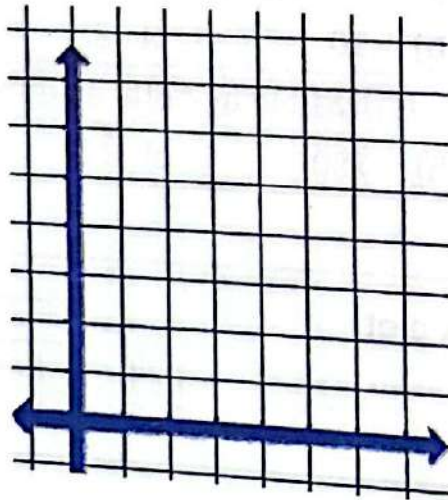
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[B] Complete the following table then represent the equation: $Y = X + 2$

X	0	1	2
Y			



End of the questions



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Prim 6 - Model No 3

[1] [A] Choose the correct answer:

(1) The integer which lies between $\frac{12}{5}$ and $\frac{16}{5}$ is

- a) 1 b) 2 c) 3 d) 4

(2) The number expressing a gain of 130 pounds on the stock exchange is

- a) Rectangle b) Prism c) Rhombus d) trapezoid

(3) The number is divisible by 3

- a) 100 b) 200 c) 400 d) 600

[B] Find GCF and LCM for 8 and 24



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[2] [A] Choose the correct answer:

(1) In equation $5y = X$ the variable X represents a variable

- a) Dependent b) Independent c) Constant d) Otherwise

(2) Inequality $X < 2$ The value of the variable (x) in which can be

- a) 4 b) 3 c) 2 d) 0

(3) The mode of values 5, 2, 7, 3, 4 is.....

- a) 2 b) 3 c) 4 d) 5

[B] Find the value of the algebraic expression: $(9 + 2b) \times 10$ when the value of $b = \text{zero}$

[3] [A] Choose the correct answer:

(1) The constant in the expression $4x + 3$ is

- a) 4 b) 3 c) 1 d) 7

(2) The previous integer of -4 is

- a) 3 b) -3 c) 5 d) -5

(3) If: $6n = 24$, then the value of n is

- a) 30 b) 24 c) 16 d) 4

[B] Arrange the following numbers in descending order:

$|-9|$, 0.99 , $|6|$, 44

[4]

[A] solve the following equation : $X + 7 = 10$



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[B] Find the mean and the range of the following data : 4 , 20 , 6 and 10

.....

.....

.....

[5]

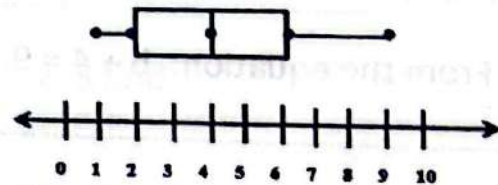
[A] Consider the corresponding box plot and calculate the following values:

1) Median =

2) Lower quartile =

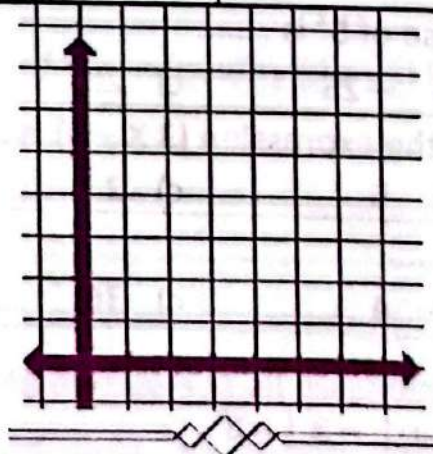
3) Upper quartile =

4) max =



[B] Complete the following table then represent the equation: $Y = X + 1$

X	0	2	4
Y			



End of the questions



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Prim 6 - Model No 4

[1] [A] Choose the correct answer:

(1) The integer lies between 2 and -4 is

- a) -5 b) -2 c) 3 d) -6

(2) The 10 number subtracted from A is

- a) $A - 10$ b) $A + 10$ c) $10 - A$ d) $10A$

(3) The range for $(2, 3, 9, 7)$ is

- a) 2 b) 7 c) 3 d) 11

[B] From the equation: $b + 4 = 9$ then find the out put of $Y = 3b$?

.....

.....

.....

.....

[2] [A] Choose the correct answer:

(1) The additive inverse of 5^2 is

- a) -5 b) -25 c) 25 d) 10

(2) The coefficient in the expression $(3X - 5)$ is

- a) 3 b) 5 c) 2 d) 8

(3) GCF for 4 and 9 is

- a) 1 b) 4 c) 36 d) 0

[B] solve the equation $x + |-3| = 8$

.....

.....

.....



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[3] [A] Choose the correct answer:

(1) The number of like terms in $m^2 + m - 7 + 3m$ is

- a) 2 b) 3 c) 4 d) 5

(2) ... is divisible by both 2 and 5

- a) 25 b) 16 c) 15 d) 400

(3) $\frac{\text{Sum of all values}}{\text{number of theses values}} = \dots\dots$

- a) Mode b) Mean c) Range d) median

[B] From the following set of values 7, 5, 3, 2, 3 find:

① The arithmetic mean=.....

② Mode=.....

③ Median =



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[4]

[A] Find the solution set of the inequality ($9 \geq x3$) in the positive integers

.....

.....

.....

[B] Arrange the following numbers in an ascending order:

$-5, |-3|, 17, 0.999, -400$

.....

.....

[5]

[A] Find the value of the expression $(11 + X^2) 10$ when the value of $X = 0$

[B] The following table represents the temperatures recorded in some cities

Temperature	25-20	30-26	35-31	36-40
Frequency	5	9	2	7

→ Show data in histogram?

End of the questions



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Prim 6 - Model No 5

[1] [A] Choose the correct answer:

(1) The number -7 lies on the right of On the number line

- a) -3 b) 0 c) 1 d) -1

(2) LCM for $5, 8$ is

- a) 1 b) 5 c) 8 d) 40

(3) The coefficient of an algebraic expression $5b^3$ is

- a) 5 b) 3 c) b d) $5b$

[B] Find The integer numbers lies between $\frac{9}{4}, \frac{24}{5}$?

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[2] [A] Choose the correct answer:

(1) The numbers that divisible by 2 is called

- a) Relatively prime b) Composite c) Odd d) Even

(2) The inequality which represents Y is more than of equal 6

- a) $Y < 6$ b) $Y > 6$ c) $Y \geq 6$ d) $Y \leq 6$

(3) $- \left| -\frac{24}{6} \right| = \dots$

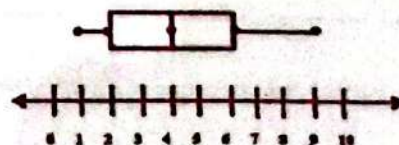
- a) $\frac{24}{6}$ b) $-\frac{24}{6}$ c) 24 d) -6

[B] In the opposite box plot

① The lower quartile is

② The median is

③ The maximum value is



[3] [A] Choose the correct answer:

(1) The mean for the values (4 , 5 , 6 , 3 , 2) is

a) 3

b) 4

c) 5

d) 6

(2) The greatest 2 – digit number divisible by 2 is

a) 8

b) 10

c) 100

d) 98

(3) $(8 \div 4)^3 - 2^2 = \dots\dots$

a) 2

b) 0

c) 4

d) 8

[B] Solve the equation: $X - 3 = 5$ in N



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[4]

[A] Write a symbolic expression represent the perimeter of rectangle its dimension x cm. and y cm.

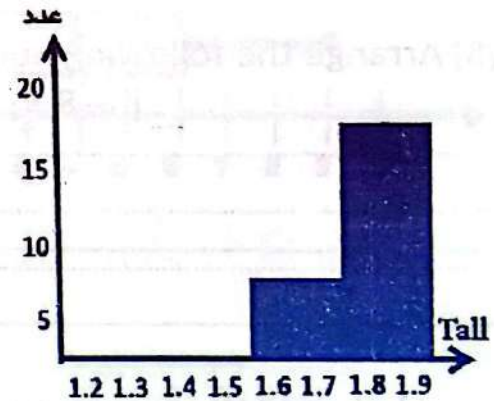
[B] Find the mean, median , mode , range and outlier value for the following data : (4 , 3 , 7 , 8 , 3 , 5 , 20)

[5]

[A] Represent the following numbers on the number line and arrange it

ascending: $(2, -\frac{1}{4}, -3, \frac{3}{4}, -2)$

[B] What is the number of players which tall is more than 1.7 m?



◆◆◆

End of the questions



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Prim 6 - Model No 6

[1] [A] Choose the correct answer:

- (1) In the equation: $a = 7b$, the variable a express
- a) Independent b) Dependent c) Constant d) Other wise
- (2) The integer number which represents a loss of 150 L.E is
- a) -1 b) 150 c) -150 d) 1
- (3) In the inequality $X > 130$, the value of X may be equal
- a) 100 b) 140 c) 90 d) 80

[B] Arrange the following numbers in a descending order:

$|-8|$; -9 , 0 , $-|6|$, $-(-10)$



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[2] [A] Choose the correct answer:

- (1) When add the value 27 to the data (22 , 23 , 21 , 24 , 27) then the mean equal
- a) 50 b) 24 c) 33 d) 23
- (2) Type of data of the horizontal axis for line plot is data
- a) Descriptive b) Numerical c) Variables d) otherwise
- (3) The number 0 is numbers
- a) Natural b) Integer c) Rational d) All of the pervious

[B] Represent the following data with a box plot:

17 , 18 , 16 , 20 , 15 , 18 , 17 , 17 , 16

[3] [A] Choose the correct answer:

(1) $|-9| - |-5| = \dots\dots$

a) 0

b) 1

c) 9

d) 90

(2) Double of the number 2^{10} is $\dots\dots\dots$

a) 2^{20}

b) 2^{11}

c) 4^{20}

d) 4^{10}

(3) $(8 \div 4)^3 - 2^2 = \dots\dots\dots$

a) 2

b) 0

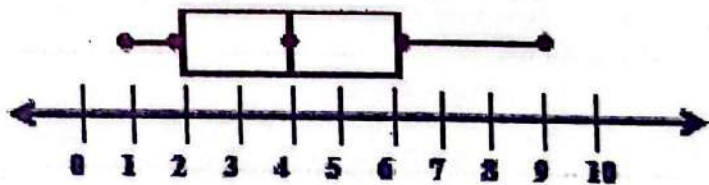
c) 4

d) 8

[B] In opposite box plot :

The median =

The range =



[4]

[A] Find GCF and LCM for 12 and 18?

.....

.....

.....



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[B] if the input value is 7 in the relation $y = x + 5$ find the out put value?

.....

.....

.....

[5]

[A] Find the result of : $(3 \times 2^2) \div 6 + 3$

[B] Solve the equation:

$$5 = 2 + X \text{ in } N$$

End of the questions



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Prim 6 - Model No 7

[1] [A] Choose the correct answer:

(1) All of the following numbers are divisible by 6 except

- a) 920 b) 120 c) 360 d) 252

(2) side length of square x cm ,then its perimeter = cm

- a) $4x$ b) $x+4$ c) x^2 d) $2x$

(3) the independent variable in relation : $x+2=y$ is

- a) x b) y c) 5 d) $x+2$

[B] find the result of :

(1) $5,324 + 6,053 = \dots\dots$

(2) $853 - 470 = \dots\dots$



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[2] [A] Choose the correct answer:

(1) The number just before -9 is

- a) -10 b) -8 c) -7 d) -11

(2) the mode of values 3, 2, 1, 2, 4 is

- a) 1 b) 2 c) 3 d) 4

(3) if $x > 2$ then $x+1$ ☐ 2

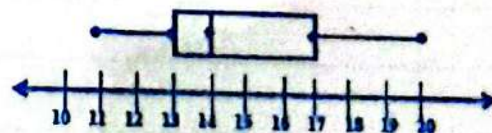
- a) $>$ b) $<$ c) $=$ d) otherwise

[B] look at the opposite box plot and complete

1- Upper limit

2- Lower limit

3- Median



[3] [A] Choose the correct answer:

(1) The sum of marks of 5 students in mathematics is 60 , then the mean of their marks is

- a) 6 b) 5 c) 2 d) 10

(2) The largest integer satisfies the inequality : $x < 10$ is

- a) 2 b) 5 c) 9 d) 12

(3) In expression $y + 3 + m + 7$, two like algebraic terms are

- a) m, y b) 3, 7 c) $y, 3$ d) $m, 7$

[B] Show that if two following expressions are equivalent or not by using substituting $2(2a + 9)$, $4a + 18$

[4]

[A] Solve of the equation $3x - 1 = 11$, in Z



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[B] If $3d = 9$ then find the numerical value of $2d + 19$?

[5]

[A] Arrange in descending order : $(1, \frac{-5}{2}, 2, \frac{3}{2}, -1)$

[B] The following table shows the donations of a group of students , such as this data in a frequency histogram

The amount	5	7	9	11	13	15
frequency	10	3	8	4	2	1

How many students donated by 9 pounds or more ?

End of the questions



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Prim 6 - Model No 8

[1] [A] Choose the correct answer:

(1) If the power is 5 and the base is 4 then the exponential image is ...

- a) 5^4 b) 4^4 c) 5^5 d) 4^5

(2) If $x > 4$ then the number to the s . s

- a) 5 b) 6 c) 7 d) 3

(3) (331 +) is divisible by 3

- a) 0 b) 1 c) 2 d) 3

[B] Find the value of the expression $4 + (5^2 - 20)$

.....

.....

.....

.....



[2] [A] Choose the correct answer:

(1) GCF of two numbers 5 and 10

- a) 5 b) 10 c) 15 d) 50

(2) The number of integer numbers between 2 , -2 is

- a) -1 b) -3 c) 3 d) -4

(3) $9(2 + 3) = \dots + 27$

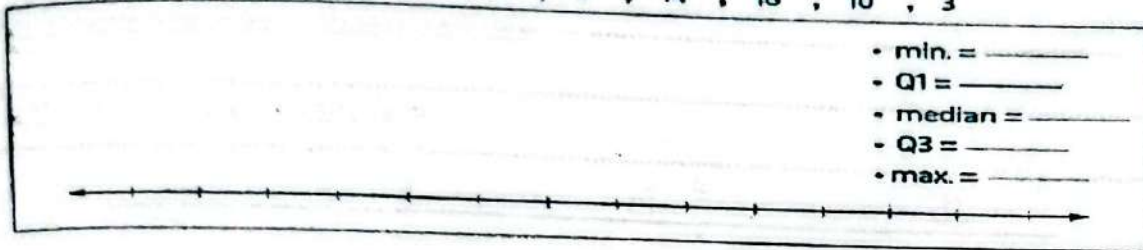
- a) 45 b) 18 c) 27 d) 5

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[B]

Draw the box plot for the following data.

5, 7, 13, 11, 2, 1, 2, 14, 16, 10, 3



[3] [A] Choose the correct answer:

(1) The additive inverse of 3 The additive inverse of 0

- a) < b) > c) = d) otherwise

(2) The G.C.F of two relatively prime numbers is

- a) 0 b) 1 c) 2 d) 3

(3) The mathematical sentence : $5x + 3y + 6$ is

- a) Numerical b) Expression c) Equation d) inequality

[B] Arrange in ascending order

 $3.8, -3\frac{2}{3}, 1\frac{1}{4}, -2.5$

.....

.....

.....



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[4]

[A] Find the value of: $X^2 + 12 \div 6 - 3 \times 2$ when $X = 3$

[B] Solve the equation : $3X = 6$

[5]

[A] Find the GCF and LCM of 10 and 30?



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[B] Complete the following table according to the equation: $y = 2x + 1$

x	0	4	8	10	13
y	—	—	—	—	—

End of the questions

Prim 6 - Model No 9

[1] [A] Choose the correct answer:

(1) If $A + \frac{6}{7} = 0$, then $A = \dots\dots$

a) 0

b) 1

c) $\frac{6}{7}$ d) $-\frac{6}{7}$

(2) The greatest value – the smallest value =

a) Mean

b) Median

c) Mode

d) Range

(3) The number is divisible by 6 .

a) 633

b) 236

c) 324

d) 662

[B] In the opposite figure :

If $OA = OB$, find the value of x 

[2] [A] Choose the correct answer:

(1) If k is negative which of the following is positivea) k^2 b) k^3 c) $2k$ d) $\frac{k}{2}$ (2) If $X + 120 = 135$ then the value of variable X is

a) 53

b) 30

c) 20

d) 15

(3) The number $0.3 = \dots\dots\dots$ (in the form of $\frac{a}{b}$)a) $\frac{3}{1}$ b) $\frac{10}{3}$ c) $\frac{3}{10}$ d) $-\frac{3}{10}$ [B] If $a = \frac{1}{2}$, $b = \frac{-3}{2}$, find the value of $(a - b)^3$ 

[3] [A] Choose the correct answer:

(1) The mode of (1 , 2 , 3 , 4 , 2 , 5) is

- a) 3 b) 2 c) 5 d) 1

(2) The rational number which is equal to $\frac{2}{3}$ is

- a) $\frac{4}{6}$ b) $\frac{7}{6}$ c) $\frac{1}{6}$ d) $\frac{5}{6}$

(3) An integer represent (the temperature degree 7 below zero) is...

- a) 7 b) 0 c) -7 d) 7×0

[B] Find the numerical value of $10 + (5 - 3) \times 2^3 \div 4$

.....

.....

.....

[4]

[A] Solve the equation : $2X + 1 = 5$ in N

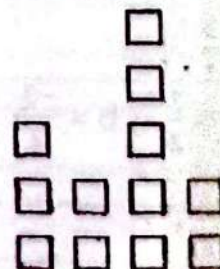
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[B] Form opposite diagram :

Find The mean of the following values ?



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[5]

[A] If $|\frac{1}{2}x| = \frac{3}{2}$ find the value of x ?

.....

.....

.....

[B] Complete the following table according to the equation : $y = 2x + 1$

x	0	4	8	10	13
y	—	—	—	—	—

.....

.....

.....

End of the questions



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[1] [A] Choose the correct answer:

(1) The number whose additive inverse is itself is

- a) 1 b) 0 c) -1 d) 2

(2) The expression "subtract h from 3" is

- a) $h - 3$ b) $3 - h$ c) $3h$ d) $\frac{h}{3}$

(3) The Q3 of : 7, 8, 9, 3 and 10 is

- a) 3 b) 7 c) 8 d) 9

[B] In the equation: $y = X^2 + 7$ find the value of y when $X = 2$?

.....

.....

.....

[2] [A] Choose the correct answer:

(1) The constant of the expression: $m + 7$ is

- a) 7 b) m c) 7m d) m7

(2) The GCF of two numbers 7 and 8 is

- a) 1 b) 0 c) 2 d) 3

(3) $|-4|$ the opposite of (-4)

- a) $<$ b) $>$ c) $=$ d) Otherwise



[B] Circle the numbers which are divisible by 2, 3 and 5:

936, 165, 600, 582, 330

[3] [A] Choose the correct answer:

(1) The independent variable in the equation : $x = 2y + 7$

- a) X b) Y c) 2 d) 7

(2) The best subset for the number zero is a / an numbers

- a) Counting b) Rational c) Integer d) natural

(3) The number of terms of the expression : $2k - m + 8$ is

- a) 2 b) 3 c) 8 d) k

[B] Arrange in a descending order: (-8) , $|-7|$, 2 , 0 , -3.5

[4]

[A] Solve the equation: $7 + m = 27$



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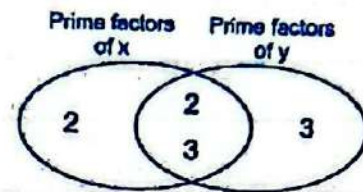
[B] from the opposite venn diagram :

The number $x = \dots\dots\dots$

The number $y = \dots\dots\dots$

GCF =

LCM =



[5]

[A] From the opposite box plot

Median =

Range =



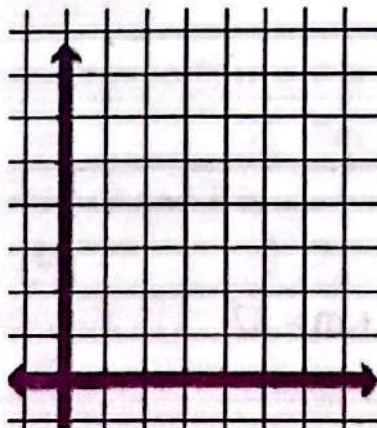
[B] Complete the following table then represent it graphically:

The equation: $y = x + 1$

x	0	1	2
y			



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End of the questions



[1] [A] Choose the correct answer:

(1) The number 35 isby 7

- a) Product b) Divisible c) divisor d) factor

(2) "Y equal 9 added to the number m" , in the algebraic form is

- a) $M = y + 9$ b) $Y = m + 9$ c) $Y = 9m$ d) $M = 9y$

(3) Which of the following is NOT belong to natural numbers?

- a) 3 b) 0 c) 2 d) -5

[B] Evaluate: $9(p^2 - 20)$ for $p = 5$

[2] [A] Choose the correct answer:

(1) The greatest non- positive integer is

- a) 0 b) 1 c) -1 d) 2

(2) 5 squared =

- a) 5 b) 15 c) 10 d) 25

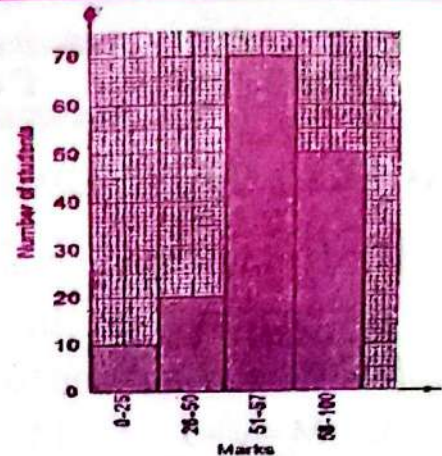
(3) 0 , 1 , 2 are from solutions of the inequality in N :

- a) $X < 2$ b) $X \leq 2$ c) $X \geq 2$ d) $X > 3$



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[B] From the opposite histogram:
How many students got more than 50 marks?



[3] [A] Choose the correct answer:

(1) $(6 + 7) = 30 + 35$

a) 6

b) 7

c) 5

d) 13

(2) Y is independent variable in the equation

a) $Y + 4 = x$

b) $X + 3 = y$

c) $Y = x + 2$

d) $3x = y$

(3) If $\frac{1}{5} + \frac{1}{3} = \frac{x}{15}$, then $x = \dots\dots$

a) 15

b) 8

c) $\frac{8}{15}$

d) 2

[B] Solve: $X + 8 = 17$ in N



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[4]

[A] If the mode of the values : 2 , 7 , 5 , x and 6 is 5

Find the median and the mean ?

[B] Find the GCF of the numbers : 24 and 18

[5]

[A] Evaluate : $5^2 + 8 \div (6 - 2)$

[B] Graph the relation $y = x + 5$



End of the questions

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Prim 6 - Model No

12

[1] [A] Choose the correct answer:(1) Which of the following is equivalent to $2x + 10$?

- a) $2(x + 5)$ b) $12x$ c) $20x$ d) $2x + 5 + 2$

(2) The range of the values : 7 , 10 , 9 , 5 and 4 is

- a) 5 b) 6 c) 7 d) 9

(3) $-3\frac{1}{7}$ $-3\frac{1}{4}$

- a) $<$ b) $>$ c) $=$ d) otherwise

[B] Find: $(15 - 9) + 3^2 \times 4$

.....

.....

.....

.....

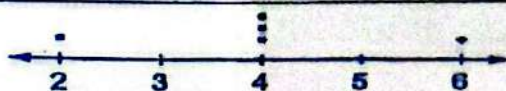
[2] [A] Choose the correct answer:

(1) The rational number between 0.3 and 0.4 is.....

- a) 0.31 b) 0.41 c) 0.25 d) 0.53

(2) " K equal the product of m and 3 " as equation is

- a) $m = 3k$ b) $K = m + 3$ c) $K = m - 3$ d) $K = 3m$

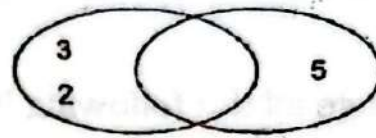
(3) In the opposite graph,
the balance point is

- a) 6 b) 5 c) 4 d) 2



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[B] From opposite venn diagram :



Find the GCF and LCM

[3] [A] Choose the correct answer:

(1) The number is a one of solution of the inequality $x \leq 4$

- a) 10 b) -6 c) 2 d) 7

(2) If $x + 2 = 12$ then $\frac{x}{5} = \dots\dots$

- a) 10 b) 2 c) 5 d) 14

(3) The independent variable in the equation : $5m - 3 = k$ is

- a) k b) m c) 5 d) 3

[B] from the opposite data:: 91 , 94 , 93 , 5 , 99 and 90

The outlier value:

The median :

[4]

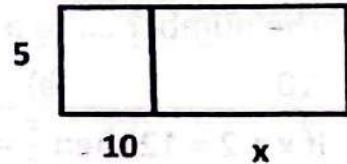
[A] Find the value of the expression: $(2x + 3) - 5$ when $x = 3$



[B] Arrange all the following in descending order

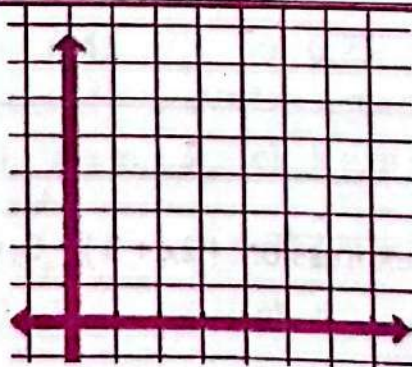
$$3.4, -2\frac{1}{2}, 0, -4\frac{3}{7}, 3.24$$

[5] [A] Write the algebraic expression
to find the area of the opposite figure



[B] Complete the following table, represent it graphically the equation
 $Y = X + 1$

X	0	2	3
y			



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End of the questions

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أحمد مصاد

حمل الآن

مجاناً وحصرياً

امتحانات رقم (5)

الترم الاول



01: CHOOSE THE CORRECT ANSWER

(9 marks)

30

- 1 If the ones digit of a number is zero, then it is divisible by
 (a) 5 only (b) 10 only (c) 10 and 5 (d) otherwise
- 2 If the largest value is 18 and the least value is 6, then the range is
 (a) 12 (b) 24 (c) 3 (d) 78
- 3 In the equation : $9a + 24 = b$, the dependent variable is
 (a) 9 (b) a (c) 24 (d) b
- 4 The number -2.5 is a/an number.
 (a) counting (b) natural (c) integer (d) rational
- 5 The inequality that represents non-positive integers
 (a) $x > 0$ (b) $x < 0$ (c) $x \leq 0$ (d) $x \geq 0$
- 6 If Merolla is "m" years old now, how old will she be before 7 years?
 (a) $7 - m$ (b) $m + 7$ (c) $m - 7$ (d) $7m$
- 7 The will be the best choice as a measure of central tendency in the opposite figure.
 (a) mean (b) median (c) Either
- 8 Which display makes it easier to see the median?
 (a) histogram (b) box plot (c) dot plot (d) bar graph
- 9 is lying between -5.14 and -5.2
 (a) -5.18 (b) 5.18
 (c) 5.3 (d) -5.3



FOLLOW US

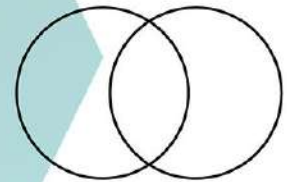
Q2: ANSWER THE FOLLOWING (21 marks)

1 Malek has 200 L.E, his weekly pocket money he spends 20 L.E. daily.

- a) The algebraic expression represent that is
- b) The remained money after 5 days is
- c) The remained money by the end of two weeks is

2 Find GCF and LCM of 12 and 18 by venn diagram

.....
.....



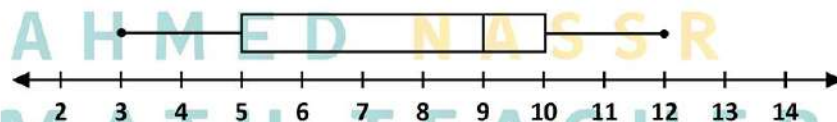
3 Find the missing: - $1\frac{5}{6}$ = $2\frac{5}{18}$

4 Solve the following equations:

- a) $2m = 18$
- b) $3m - 3 = 12$

.....

5 Using the following box plot, identify the 5-point summary of the data set:



- a) The Minimum Value:
- b) The Lower Quartile:
- c) Median:
- d) The Upper Quartile:
- e) The Maximum Value:

6 Use the order of mathematical operations to simplify: $40 \div 5 (2^3 - 5) - 10$

.....

7 Arrange the following in descending order:

$-\frac{2}{10}$, 0.8 , $-\frac{1}{4}$, 1 , $-3\frac{1}{2}$

The order: , , , ,



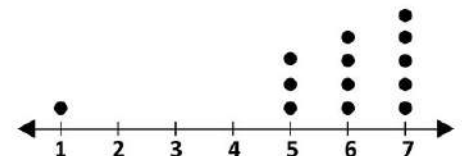
FOLLOW US

01: CHOOSE THE CORRECT ANSWER

(9 marks)

30

- 1 If the sum of a set of values is 36, and the mean of these value is 4, then the number of these value is
 - a 6
 - b 4
 - c 9
 - d 36
- 2 In 4^6 , 6 is called
 - a base
 - b factor
 - c multiple
 - d exponent
- 3 The first operation you preform in the expression $2(5 - 3) + 10$ is
 - a exponent
 - b subtract
 - c multiply
 - d add
- 4 " $k = 3 \div w$ " the independent variable is
 - a w
 - b k
 - c 3
 - d otherwise
- 5 Ahmed deposit of 500 L.E in the bank represents as
 - a -500
 - b 500
 - c -5,000
 - d 5,000
- 6 The number of integer numbers lying between $\frac{3}{5}$ and $\frac{20}{5}$ is
 - a 0
 - b 2
 - c 3
 - d infinite
- 7 A does not have vertical axis.
 - a dot plot
 - b bar graph
 - c histogram
 - d double bar graph
- 8 The will be the best choice as a measure of central tendency in the opposite figure.
 - a mean
 - b median
 - c Either
- 9 If the price of one shirt is 420 Egyptian pounds, then the price of m number of shirts is.....
 - a $420m$
 - b $420 \div m$
 - c $420 + m$
 - d $420 - m$



FOLLOW US

Q2: ANSWER THE FOLLOWING (21 marks)

- 1 The verbal phrase for: $2y + 6 = 10$ is
- 2 Arrange the following in ascending order:
 $|-0.8|$, -2.8 , -0.8 , 0 , $|-17|$
 The order: , , , ,
- 3 The two numbers represented in the Venn diagram are: and
 The common prime factors of the two numbers are
 The GCF for the two numbers is
 The LCM for the two numbers is
 Are the two numbers relatively prime numbers?
 (Yes or No)
- 4 Find the value of the algebraic expression in each of the following:

a $10y^4 \times (8 \div y^{10}) + 5$ [for $y = 1$]

.....

.....

b $6^2 \div 3 \times (a - 2)$ [For $a = 4$]

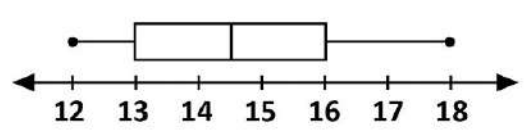
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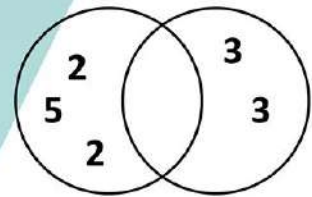
.....
- 5 A toy factory is packing toys into boxes, with each box containing 8 toys.
 If they have 28 toys left to package, Can they evenly fill the last box?

- 6 In the opposite box plot

a The median =

b The range =


- 7 Write three solutions of the inequality: $m > 3$, and graph it



FOLLOW US

01: CHOOSE THE CORRECT ANSWER

(9 marks)

30

- 1 In the equation : $y = 3x$, if $x = 5.1$, then y would be
 (a) 8.1 (b) 53.1 (c) 15.3 (d) 18.3
- 2 Ayman bought 4 pens for x L.E, each and he paid 24 L.E. , then $x =$
 (a) 96 (b) 8 (c) 6 (d) 20
- 3 A square of side length " m " cm, has perimeter of cm.
 (a) $m \div 4$ (b) $4m$ (c) $m - 4$ (d) $m + 4$
- 4 $(10 \times 3 - 8) - 5 \times (6 - 2) =$
 (a) 8 (b) 0 (c) 2 (d) 68
- 5 If $3 \times m = 27$, Then the value of Third $m =$
 (a) 3 (b) 9 (c) 27 (d) otherwise
- 6 The smallest number from the following is
 (a) -30 (b) -25 (c) -13 (d) -23
- 7 The number of rational numbers between 3 and 6 is
 (a) 2 (b) 1 (c) 0 (d) infinite number
- 8 The mean of the values (4, 9, 6, 8, 1, 8) is
 (a) 4 (b) 6 (c) 3 (d) 36
- 9 The algebraic expression that represents three times the sum of the number " m " and 7 is
 (a) $3m + 7$ (b) $3(m + 7)$
 (c) $7m + 3$ (d) $7(m + 3)$



FOLLOW US

Q2: ANSWER THE FOLLOWING

(21 marks)

- 1 Ahmed 48 pencils and 18 crayons. What is the numerical expression of the greatest number of sets that can be made so that all sets include the same number of items?

.....
.....

- 2 Find the result of: $5\frac{3}{7} - 3\frac{2}{3} = \dots\dots\dots$

- 3 Arrange the following in ascending order:

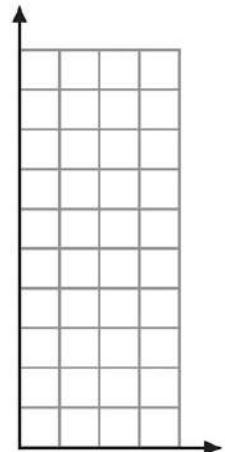
$7\frac{1}{2}$, -1.8 , $-\frac{5}{7}$, 8 , -10

The order:,,,,

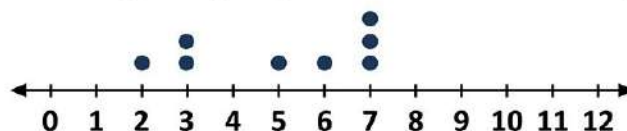
- 4 Complete the following table, then make the graphs:

The equation: $y = 3(x - 1)$

x	1	2	3
y			
(x , y)	(..... ,)	(..... ,)	(..... ,)



- 5 By using the following dot plot, what is the mean by using balanced point



- 6 The verbal expression for " $2m - 7$ " is

- 7 In a car park, If there is an entrie fee is 10 L.E and every hour passed there for 20 L.E

- a) The algebraic expression express that is
b) The cost of passing 6 hours is



FOLLOW US

01: CHOOSE THE CORRECT ANSWER

(9 marks)

30

- 1 The first step will you perform in $3 \times 5 + 3 (2^3 - 5) - 4 \div 2$ is
 (a) parantheses (b) plus (c) multiply (d) exponent
- 2 Three squared =
 (a) 2^3 (b) 3^3 (c) 3^2 (d) 2^2
- 3 If the range of a set of values is 11 and the smallest value is 7, then the largest value is
 (a) 4 (b) 18 (c) 77 (d) 70
- 4 All the following are a numerical data, except the
 (a) age (b) length (c) temperature (d) name
- 5 is a solution of the inequality $X > 15$.
 (a) 15 (b) 12 (c) 1 (d) 20
- 6 If we subtract "x" from the number 9 , the result is
 (a) $9 - x$ (b) $9 + x$ (c) $x - 9$ (d) $9x$
- 7 The coefficient of the algebraic expression: $5ab + 4$ is
 (a) 2 (b) 3 (c) 4 (d) 5
- 8 All the following are measures of the central tendency, except
 (a) mean (b) median (c) mode (d) range
- 9 Which of the following data sets hasn't any outlier?
 (a) 20, 25, 27, 22, 2, 24, 28 (b) 5, 3, 27, 7, 9, 10, 12
 (c) 53, 48, 52, 47, 4, 54, 59 (d) 5, 7, 3, 1, 9, 11, 6



FOLLOW US

Q2: ANSWER THE FOLLOWING (21 marks)

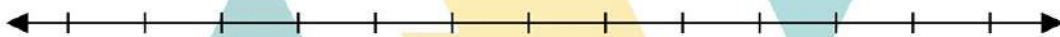
1 Double x added to 4 equals y as equation is

2 Find the result of $2\frac{3}{7} + 5\frac{1}{14} = \dots\dots\dots$

3 Check the following expression where each pair is equivalent or not.
 $2(x + 1)$ and $2x + 1$ Use two values for x from your own

.....
.....

4 Draw a box plot for following groups of values: (7 , 8 , 3 , 5 , 9 , 1 , 3)



a The Minimum Value:

b The Lower Quartile:

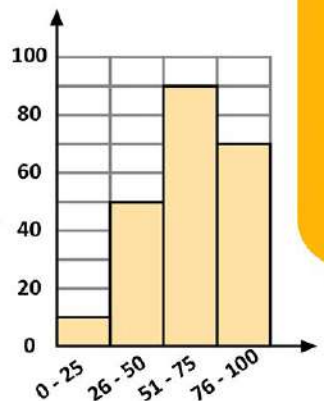
c Median:

d The Upper Quartile:

e The Maximum Value:

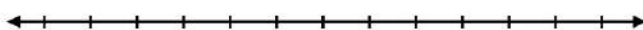
5 In the opposite histogram.

How many students get more than 50 marks?



6 List 3 solutions of the inequality: $y \leq -3$, then graph it

.....



7 Determine the rule and the equation from the following table:

Input (x)	1	2	3	4	5
Output (y)	6	7	8	9	10

Rule :

Equation :



FOLLOW US

Q1: CHOOSE THE CORRECT ANSWER

(9 marks)

30

- 1 If the sum of 6 values equals 48, then the mean of these values is
 (a) 40 (b) 56 (c) 24 (d) 8
- 2 If the equation : $x - 3 = 1$, then $\frac{1}{2}x = \dots\dots\dots$
 (a) 1 (b) 2 (c) 3 (d) 4
- 3 The largest non-positive integer is
 (a) -1 (b) 1 (c) 0 (d) 1,000
- 4 The equation that expresses the rule "add 2 then multiply by 3" is
 (a) $y = 3x + 2$ (b) $y = 2x + 3$ (c) $y = 3(x + 2)$ (d) $y = 2(x + 3)$
- 5 In the equation : $y = 2x + 1$, if the output is 7, then the input is
 (a) 2 (b) 3 (c) 4 (d) 5
- 6 The number of terms of the expression: $5 - 2m - 3m + 4$ is
 (a) 2 (b) 3 (c) 4 (d) 5
- 7 If the median of $a + 1$, $a + 2$, $a + 3$ is 5, then $a = \dots\dots\dots$
 (a) 1 (b) 2 (c) 3 (d) 4
- 8 The best subset of the number 0 is a/an
 (a) counting (b) natural (c) integer (d) rational
- 9 If the upper quartile of the values: $k + 2$, $k + 3$, $k + 5$, $k + 4$, $k + 1$, where k is a positive integer is 15.5, then $k = \dots\dots\dots$
 (a) 7 (b) 9
 (c) 8 (d) 11



Q2: ANSWER THE FOLLOWING (21 marks)

1 Complete: (a) The set of integers the set of rational numbers

(b) 5.7 the set of rational numbers.

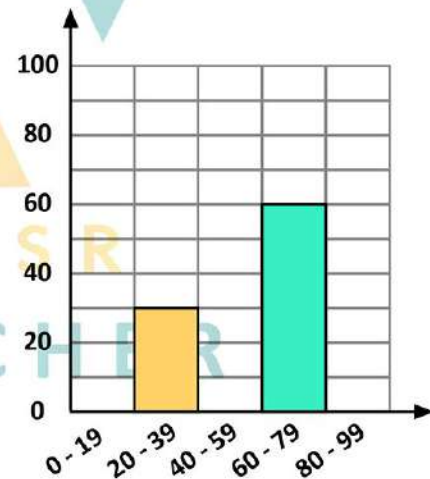
2 If $3y - 2 = 7$, in verbal form is

3 Ahmed runs for $4\frac{1}{3}$ hours a day, and Heba runs for $3\frac{4}{9}$ hours a day.
What is the difference between the time they both run?
.....

4 Evaluate the expression: $7 + 3(x - 3)$ for $x = 3$

5 Use the opposite histogram to complete the table and the graph:

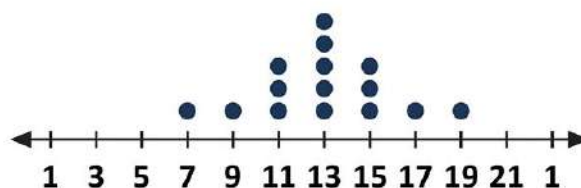
Intervals	Frequency
0 - 19	90
20 - 39	.....
40 - 59	30
60 - 79	.....
80 - 99	70



6 If the mean of the values is 3, 4, 6, x, 7 is 6, then the value of x is

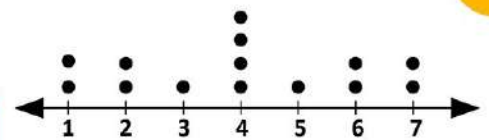
7 By using the opposite dot plot find:

- (a) The mean:
- (b) The median:
- (c) The range:
- (d) The mode:



01: CHOOSE THE CORRECT ANSWER

- 1 If the ones digit of a number is zero, then it is divisible by
 (a) 5 only (b) 10 only (c) 10 and 5 (d) otherwise
- 2 If the largest value is 18 and the least value is 6, then the range is
 (a) 12 (b) 24 (c) 3 (d) 78
- 3 In the equation : $9a + 24 = b$, the dependent variable is
 (a) 9 (b) a (c) 24 (d) b
- 4 The number -2.5 is a/an number.
 (a) counting (b) natural (c) integer (d) rational
- 5 The inequality that represents non-positive integers
 (a) $x > 0$ (b) $x < 0$ (c) $x \leq 0$ (d) $x \geq 0$
- 6 If Merolla is "m" years old now, how old will she be before 7 years?
 (a) $7 - m$ (b) $m + 7$ (c) $m - 7$ (d) $7m$
- 7 The will be the best choice as a measure of central tendency in the opposite figure.
 (a) mean (b) median (c) Either
- 8 Which display makes it easier to see the median?
 (a) histogram (b) box plot (c) dot plot (d) bar graph
- 9 is lying between -5.14 and -5.2
 (a) -5.18 (b) 5.18
 (c) 5.3 (d) -5.3



FOLLOW US

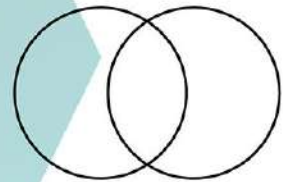
Q2: ANSWER THE FOLLOWING

1 Malek has 200 L.E, his weekly pocket money he spends 20 L.E. daily.

- a) The algebraic expression represent that is $200 - 20m$
- b) The remained money after 5 days is 100
- c) The remained money by the end of two weeks is 120

2 Find GCF and LCM of 12 and 18 by venn diagram

GCF = 6 LCM = 36
.....
.....

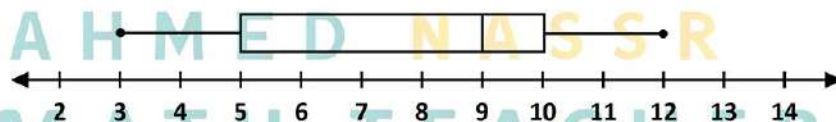


3 Find the missing: $4\frac{1}{9}$ - $1\frac{5}{6}$ = $2\frac{5}{18}$

4 Solve the following equations:

- a) $2m = 18$ 9
- b) $3m - 3 = 12$ 5

5 Using the following box plot, identify the 5-point summary of the data set:



- a) The Minimum Value: 3
- b) The Lower Quartile: 5
- c) Median: 9
- d) The Upper Quartile: 10
- e) The Maximum Value: 12

6 Use the order of mathematical operations to simplify: $40 \div 5 (2^3 - 5) - 10$

..... 14

7 Arrange the following in descending order:

$-\frac{2}{10}$, 0.8 , $-\frac{1}{4}$, 1 , $-3\frac{1}{2}$

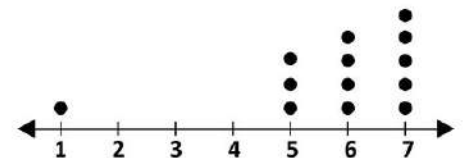
The order: , , , ,



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Q1: CHOOSE THE CORRECT ANSWER

- 1 If the sum of a set of values is 36, and the mean of these value is 4, then the number of these value is
☒ a 6 ☐ b 4 ☐ c 9 ☐ d 36
- 2 In 4^6 , 6 is called
☐ a base ☐ b factor ☐ c multiple ☒ d exponent
- 3 The first operation you preform in the expression $2(5 - 3) + 10$ is
☐ a exponent ☒ b subtract ☐ c multiply ☐ d add
- 4 " $k = 3 \div w$ " the independent variable is
☒ a w ☐ b k ☐ c 3 ☐ d otherwise
- 5 Ahmed deposit of 500 L.E in the bank represents as
☐ a -500 ☒ b 500 ☐ c -5,000 ☐ d 5,000
- 6 The number of integer numbers lying between $\frac{3}{5}$ and $\frac{20}{5}$ is
☐ a 0 ☐ b 2 ☒ c 3 ☐ d infinite
- 7 A does not have vertical axis.
☒ a dot plot ☐ b bar graph ☐ c histogram ☐ d double bar graph
- 8 The will be the best choice as a measure of central tendency in the opposite figure.
☐ a mean ☒ b median ☐ c Either
- 9 If the price of one shirt is 420 Egyptian pounds, then the price of m number of shirts is.....
☒ a $420m$ ☐ b $420 \div m$
☐ c $420 + m$ ☐ d $420 - m$



FOLLOW US

Q2: ANSWER THE FOLLOWING

1 The verbal phrase for: $2y + 6 = 10$ is **twice number (y) added to 6 equals to 10**

2 Arrange the following in ascending order:

⁴ $|-0.8|$, ¹ -2.8 , ² -0.8 , ³ 0 , ⁵ $|-17|$

The order: , , , ,

3 The two numbers represented in the Venn diagram are: **20** and **9**

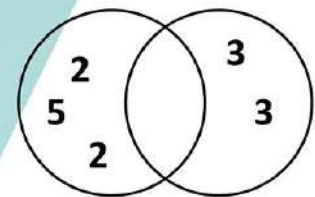
The common prime factors of the two numbers are **none** .

The GCF for the two numbers is **1** .

The LCM for the two numbers is **180** .

Are the two numbers relatively prime numbers?

(Yes or No)



4 Find the value of the algebraic expression in each of the following:

a $10y^4 \times (8 \div y^{10}) + 5$ [for $y = 1$]

b $6^2 \div 3 \times (a - 2)$ [For $a = 4$]

.....
85 **24**

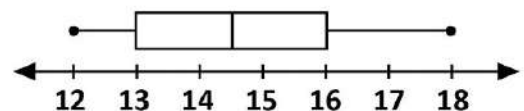
5 A toy factory is packing toys into boxes, with each box containing 8 toys. If they have 28 toys left to package, Can they evenly fill the last box?

No, Because 28 is not divisible by 8

6 In the opposite box plot

a The median = **14.5** .

b The range = **6** .



7 write three solutions of the inequality: $m > 3$, and graph it

5, 6, 10 draw by yourself

.....
.....



FOLLOW US

01: CHOOSE THE CORRECT ANSWER

- 1 In the equation : $y = 3x$, if $x = 5.1$, then y would be
 (a) 8.1 (b) 53.1 (c) 15.3 (d) 18.3
- 2 Ayman bought 4 pens for x L.E, each and he paid 24 L.E. , then $x =$
 (a) 96 (b) 8 (c) 6 (d) 20
- 3 A square of side length "m" cm, has perimeter of cm.
 (a) $m \div 4$ (b) $4m$ (c) $m - 4$ (d) $m + 4$
- 4 $(10 \times 3 - 8) - 5 \times (6 - 2) =$
 (a) 8 (b) 0 (c) 2 (d) 68
- 5 If $3 \times m = 27$, Then the value of Third $m =$
 (a) 3 (b) 9 (c) 27 (d) otherwise
- 6 The smallest number from the following is
 (a) -30 (b) -25 (c) -13 (d) -23
- 7 The number of rational numbers between 3 and 6 is
 (a) 2 (b) 1 (c) 0 (d) infinite number
- 8 The mean of the values (4, 9, 6, 8, 1, 8) is
 (a) 4 (b) 6 (c) 3 (d) 36
- 9 The algebraic expression that represents three times the sum of the number "m" and 7 is
 (a) $3m + 7$ (b) $3(m + 7)$
 (c) $7m + 3$ (d) $7(m + 3)$



FOLLOW US

Q2: ANSWER THE FOLLOWING

- 1 Ahmed 56 pencils and 42 crayons. What is the numerical expression of the greatest number of sets that can be made so that all sets include the same number of items?

Numerical expression = $14 (4 + 3)$

- 2 Find the result of: $5 \frac{3}{7} - 3 \frac{2}{3} = \dots\dots\dots$

- 3 Arrange the following in ascending order:

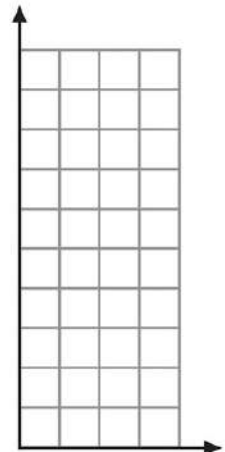
$7 \frac{4}{2}$, -1.8 , $-\frac{3}{5}$, 8 , -10

The order: $\dots\dots\dots$, $\dots\dots\dots$, $\dots\dots\dots$, $\dots\dots\dots$, $\dots\dots\dots$

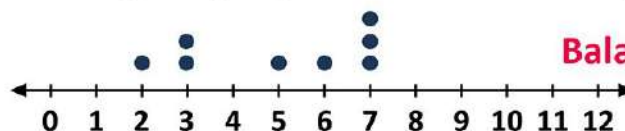
- 4 Complete the following table, then make the graphs:

The equation: $y = 3(x - 1)$

x	1	2	3
y	$\dots\dots 0 \dots\dots$	$\dots\dots 3 \dots\dots$	$\dots\dots 6 \dots\dots$
(x , y)	$(\dots\dots 1 \dots\dots, \dots\dots 0 \dots\dots)$	$(\dots\dots 2 \dots\dots, \dots\dots 3 \dots\dots)$	$(\dots\dots 3 \dots\dots, \dots\dots 6 \dots\dots)$



- 5 By using the following dot plot, what is the mean by using balanced point



Balance point is 5

- 6 The verbal expression for " $2m - 7$ " is 7 subtracted from twice number (m)

- 7 In a car park, If there is an entrie fee is 10 L.E and every hour passed there for 20 L.E

a The algebraic expression express that is $20m + 10$

b The cost of passing 6 hours is 130



FOLLOW US

01: CHOOSE THE CORRECT ANSWER

- 1 The first step will you perform in $3 \times 5 + 3 (2^3 - 5) - 4 \div 2$ is
☐ a parantheses ☐ b plus ☒ c multiply ☐ d exponent
- 2 Three squared =
☐ a 2^3 ☐ b 3^3 ☒ c 3^2 ☐ d 2^2
- 3 If the range of a set of values is 11 and the smallest value is 7, then the largest value is
☐ a 4 ☐ b 18 ☒ c 77 ☐ d 70
- 4 All the following are a numerical data, except the
☐ a age ☐ b length ☐ c temperature ☒ d name
- 5 is a solution of the inequality $X > 15$.
☐ a 15 ☐ b 12 ☐ c 1 ☒ d 20
- 6 If we subtract "x" from the number 9 , the result is
☒ a $9 - x$ ☐ b $9 + x$ ☐ c $x - 9$ ☐ d $9x$
- 7 The coefficient of the algebraic expression: $5ab + 4$ is
☐ a 2 ☐ b 3 ☐ c 4 ☒ d 5
- 8 All the following are measures of the central tendency, except
☐ a mean ☐ b median ☐ c mode ☒ d range
- 9 Which of the following data sets hasn't any outlier?
☐ a 20, 25, 27, 22, 2, 24, 28 ☐ b 5, 3, 27, 7, 9, 10, 12
☐ c 53, 48, 52, 47, 4, 54, 59 ☒ d 5, 7, 3, 1, 9, 11, 6



FOLLOW US

Q2: ANSWER THE FOLLOWING

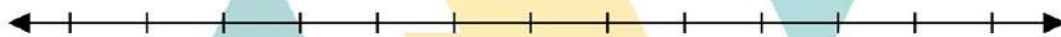
1 Double x added to 4 equals y as equation is $y = 2x + 4$

2 Find the result of $2\frac{3}{7} + 5\frac{1}{14} = \dots\dots\dots 7\frac{1}{2} \dots\dots\dots$

3 Check the following expression where each pair is equivalent or not.
 $2(x + 1)$ and $2x + 1$ Use two values for x from your own

Not equal

4 Draw a box plot for following groups of values: (7 , 8 , 3 , 5 , 9 , 1 , 3)



a The Minimum Value: 1

b The Lower Quartile: 3

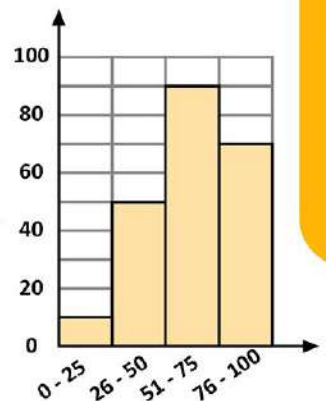
c Median: 5

d The Upper Quartile: 8

e The Maximum Value: 9

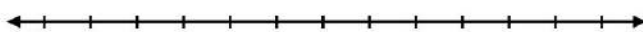
5 In the opposite histogram.

How many students get more than 50 marks? 160



6 List 3 solutions of the inequality: $y \leq -3$, then graph it

-3 , -5 , -10



7 Determine the rule and the equation from the following table:

Input (x)	1	2	3	4	5
Output (y)	6	7	8	9	10

Rule : add 5

Equation : $y = x + 5$



FOLLOW US

Q1: CHOOSE THE CORRECT ANSWER

- 1 If the sum of 6 values equals 48, then the mean of these values is
 (a) 40 (b) 56 (c) 24 (d) 8
- 2 If the equation : $x - 3 = 1$, then $\frac{1}{2}x = \dots\dots\dots$
 (a) 1 (b) 2 (c) 3 (d) 4
- 3 The largest non-positive integer is
 (a) -1 (b) 1 (c) 0 (d) 1,000
- 4 The equation that expresses the rule "add 2 then multiply by 3" is
 (a) $y = 3x + 2$ (b) $y = 2x + 3$ (c) $y = 3(x + 2)$ (d) $y = 2(x + 3)$
- 5 In the equation : $y = 2x + 1$, if the output is 7, then the input is
 (a) 2 (b) 3 (c) 4 (d) 5
- 6 The number of terms of the expression: $5 - 2m - 3m + 4$ is
 (a) 2 (b) 3 (c) 4 (d) 5
- 7 If the median of $a + 1$, $a + 2$, $a + 3$ is 5, then $a = \dots\dots\dots$
 (a) 1 (b) 2 (c) 3 (d) 4
- 8 The best subset of the number 0 is a/an
 (a) counting (b) natural (c) integer (d) rational
- 9 If the upper quartile of the values: $k + 2$, $k + 3$, $k + 5$, $k + 4$, $k + 1$, where k is a positive integer is 15.5, then $k = \dots\dots\dots$
 (a) 7 (b) 9 (c) 8 (d) 11



FOLLOW US

Q2: ANSWER THE FOLLOWING

1 Complete: (a) The set of integers is a subset the set of rational numbers

(b) 5.7 belongs the set of rational numbers.

2 If $3y - 2 = 7$, in verbal form is 3 time number (y) less 2 equals to 7

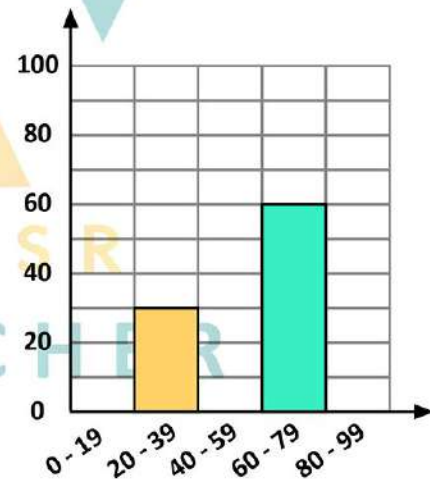
3 Ahmed runs for $4\frac{1}{3}$ hours a day, and Heba runs for $3\frac{4}{9}$ hours a day.
What is the difference between the time they both run?

..... $7\frac{7}{9}$

4 Evaluate the expression: $7 + 3(x - 3)$ for $x = 3$ 7

5 Use the opposite histogram to complete the table and the graph:

Intervals	Frequency
0 - 19	90
20 - 39	30
40 - 59	30
60 - 79	60
80 - 99	70



6 If the mean of the values is 3, 4, 6, x, 7 is 6, then the value of x is 10

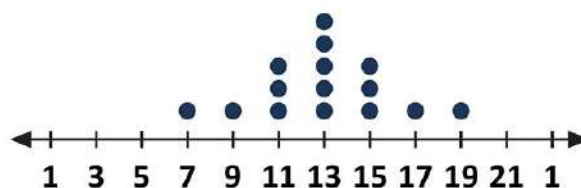
7 By using the opposite dot plot find:

(a) The mean: 13

(b) The median: 13

(c) The range: 12

(d) The mode: 13



FOLLOW US

حمل الآن

مجاناً وحصرياً

امتحانات رقم (6)

الترم الاول



Test 1

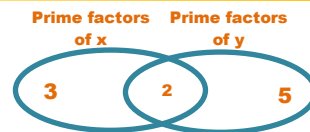
1

Choose the correct answer



1 In the opposite Venn diagram, the value of x is

- (A) 2 (B) 30 (C) 6 (D) 10



2 The median of the values 9, 4, 8, 1 and 3 is

- (A) 3 (B) 4 (C) 5 (D) 8

3 Eight squared =

- (A) 2×8 (B) $8 + 2$ (C) 8^2 (D) $8 \div 2$

4 the range of the set of values 9, 4, 6, 1, 7 is

- (A) 9 (B) 8 (C) 7 (D) 6

5 The best subset of the number 0 is

- (A) Rational number (B) integer (C) natural number (D) counting number

6 Which of the following is not a solution of $N > 1.5$?

- (A) 2.5 (B) 2 (C) 1.9 (D) 1.5

7 ---

- (A) $>$ (B) $<$ (C) $=$ (D)

8 $3 \times 3 \times 3 \times 3 =$

- (A) 3×4 (B) 3 cubed (C) 3 squared (D) 3^4

9 Which algebraic expression is equivalent to $10x + 15$?

- (A) $5(2x + 3)$ (B) $5(5x + 10)$ (C) $15x + 10$ (D) $2x + 3$

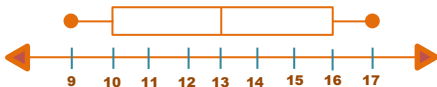
10 -0.5

- (A) $>$ (B) $<$ (C) $=$ (D)

11 $48 + \dots = 16 (\dots + 2)$

- (A) 32, 3 (B) 2, 3 (C) 16, 3 (D) 2, 16

12 From the box plot the upper quartile is



- (A) 9 (B) 10 (C) 13 (D) 16

13 The mode of 7, 9, 7, 8, 7, 6, 7 and 10 is

- (A) 7 (B) 8 (C) 9 (D) 10

14 The like terms in the expression: $1 + 5a + 5b + 2$ are

- (A) $5a$ and $5b$ (B) 1 and 2 (C) 5 and 5 (D) 5 and 2

15 $-4 \dots 0$

- (A) $>$ (B) $<$ (C) $=$ (D)

16 The first operation you perform in the expression : $3 + 5 - 4 + 2 \times 3^2$ is

- Ⓐ Subtract Ⓑ add Ⓒ multiply Ⓓ exponent

Complete the following



- The L.C.M of 4 and 12 is
- The verbal form of " $m + 0.7$ " is
- From the opposite dot plot , the mean equals
- In the equation : $y = 3x + 1$, if $x = 4$, then y would be
- $|4| \times |-4| =$
- The range = -
- $9 \times 9 \times 9 \times 9 = 9$
- The smallest counting number is
- The smallest solution of the inequality ≥ -1 is
- =



Answer the following questions



- In the pond , - of the lilies are white and - of lilies are pink . the remaining lilies are blue what is the fraction of the blue lilies ?

.....

- Eslam needs 300 L.E to buy pants . he does not have enough money . Find three possible amounts of money eslam has .

.....

- The following table shows the marks of a group of students in an exam .

marks	1	2	4	5	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Number of students	2	1	3	1	1	3	1	2	1	1	4	2	5	2	2	3	2	4

- Use suitable intervals to draw a frequency table
- Represents the frequency table using histogram

- Find the G.C.F of the following numbers using Venn diagram
7 and 12



.....

- Youssef collected data on the number of hours that spend on internet daily from the students of his class and data are shown below :

6 , 6.5 , 5 , 7 , 4.5 , 5.5 , 3 , 4 , 4 , 5 , 3.5 , 5 , 3.5 , 4.5 , 6

Using an appropriate scale on the number line to construct a box plot.

.....

TEST

2

Choose the correct answer



- 1 If $y = 7 + 3x$, then (..... , 10) satisfies the equation .
 (A) 1 (B) 0 (C) 2 (D) 4
- 2 The number of rational numbers lying between — and its opposite is
 (A) 0 (B) 1 (C) 2 (D) an infinite number
- 3 Which of the following is not numerical expression?
 (A) $5x + 3$ (B) $5^2 + 4$ (C) $3 - 1^2$ (D) $3 \times 5 + 1$
- 4 + = $12(5 + 1)$
 (A) 17 , 13 (B) 60 , 12 (C) 60 , 1 (D) 5 , 12
- 5 $24,495 \div 71 = 345$ R
 (A) 0 (B) 1 (C) 2 (D) 3
- 6 If $x - 3 = 5$, then $-x =$
 (A) 8 (B) 4 (C) 16 (D) 1
- 7 The mean of the data set (9 , 19 , 12 , 10) is
 (A) 10 (B) 12 (C) 12.5 (D) 15.5
- 8 $|-|$ 3.12
 (A) > (B) < (C) =
- 9 The inequality that represented by the opposite Number line in the set integers is
 (A) $x > 2$ (B) $x \geq 2$ (C) $x \leq 2$ (D) $x < 2$
- 10 The best subset for the number - 2 is
 (A) A Counting number (B) an integer (C) a natural number (D) a rational number
- 11 - - =
 (A) - (B) — (C) — (D) —
- 12 The G.C.F of 10 and 8 is
 (A) 2 (B) 18 (C) 40 (D) 80
- 13 The number of terms of the expression $5x + 3y - 1$
 (A) 5 (B) 3 (C) -1 (D) 1
- 14 The better measure of central tendency for The following data set is
 (A) Mean (B) Median (C) Either
- 15 Number of solutions of inequality $x < -2$ is
 (A) - 3 (B) - 1 (C) 0 (D) infinite



16 “ q is six times p add to 12 “ in equation is

- (A) $q = 6p - 12$ (B) $q = 6p + 12$ (C) $p = 6q + 12$ (D) $p = 6q - 12$

17 $10 - 3 - =$

- (A) $7 -$ (B) $6 -$ (C) $7 -$ (D) $6 -$



Complete the following :

- In the equation: $y = -x + 3$, if $x = 6$, then y would be
- The types of statistical questions are and
- $|-| + |1\frac{3}{4}| =$
- $4,250 \div 12 =$
- In the equation: $y = x + -$, if the input is $2 -$, then the output is
- In the opposite dot plot the balance point is
- The constant in the expression: $5x + 2$ is
- $8 - 3 \times 2 \div (4 - 2) =$



Answer the following questions :



- A merchant paid 7,420 L.E to buy 53 boxes mango .
Find the price of each box ,and if each box contains 5 kg . of mango , so find the price of each kg .



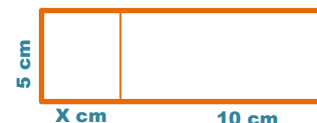
- Order the given set of numbers from least to greatest.

$2.1, 1.4, -3-, -1-, -2-$

Least				Greatest	
.....					

- Write algebraic expression to find the area of the opposite figure.

.....
.....



- Youssef read at least 4 books .

Use $b \geq$ to find three possible numbers of books that Youssef read .

.....
.....

- Order the given set of numbers from greatest to least . using table like the one shown

$3.4, -2-, 0, -4-, 3-$

Greatest				least	
.....					

TEST

3

Choose the correct answer



1 $10 - 3 - =$

A $7 -$

B $6 -$

C $7 -$

D $6 -$

2 Each number in the set of integers is called

A Element

B set

C subset

D not subset

3 The integer which comes just before -3 is

A -2

B -4

C -1

D 0

4 $|-3| + |4| =$

A 1

B -7

C 7

D 12

5 The balanced point of the set of data which is represents by the opposite dot plot is

A 12

B 13

C 14

D 15



6 $(1.5 \div 0.5)^2 + 9 - 4 =$

A 14

B 18

C 9

D 11

7 Which display makes it easier to see the median?

A Histogram

B box plot

C dot plot

D bar graph

8 $3.8 >$

A 4.1

B 5

C -6.8

D 8.9

9 $8 + 24 = 8 (..... + 3)$

A 1

B 2

C 3

D 4

10 A school has 2,800 students which distributed between 48 classes equally. How many students are in each class?

A 60

B 50

C 40

D 70

11 All the following numbers are rational except

A 1

B $-$

C $—$

D $—$

12 The number of integers between -5 and 2 is

A 6

B 5

C -3

D 7

13 In the equation : $y = 2x + 1$, the ordered pair $(2, a)$ satisfies the equation, then $a =$...

A 5

B $-$

C 23

D 6

14 The set of counting numbers the set of rational numbers .

A Belongs

B does not belong

C is a subset of

D is not a subset of

15 All the following expressions are equivalent except

A

B $2[2x + 4]$

C $4[x + 4]$

D $2[x + 2]$

16 $|-34| < \dots\dots\dots$

A 1.4

B - 1.29

C - 1.4

D 1.19

17 If $x + x = 12$, then $x = \dots\dots\dots$

A 1

B 21

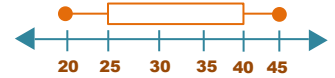
C 6

D 24

Complete the following :



- The word phrase for the equation " $m = 4L$ " is
- The box plot shows the data for the average weights Of some students, then the upper quartile=.....
- The verbal form of " $2x + 1$ " is
- $8(5+4) = 40 + \dots\dots\dots$
- In the equation: $y = -x + 3$, if $x = 6$, then y would be
- The types of statistical questions are and
- The values of the expression: $x + 5$ for $x = 4$ is
- If $m - 2 = 7$, then $m + 1 = \dots\dots\dots$



Answer the following questions :



- Solve each of the following equations .

A. $5t = 20$

B. $7 + z = 17.8$

- Write an equation use the variable x and y , where x is the independent, write the equation "multiply by 8 and add 3", substitute $x = -$ to evaluate y .

- Using the following Venn diagram, complete.

- the two numbers represented in the venn diagram areand
- The G.C.F of the two numbers is
- The L.C.M of the two numbers is



- Are the two numbers relatively prime numbers?

Test 4

4

Choose the correct answer



1 $25 + 60 = \dots\dots\dots (5 + 12)$

(A) 1

(B) 5

(C) 12

(D) 60

2 The opposite of 5 is $\dots\dots\dots$

(A) 5

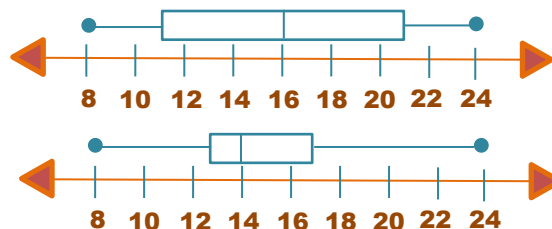
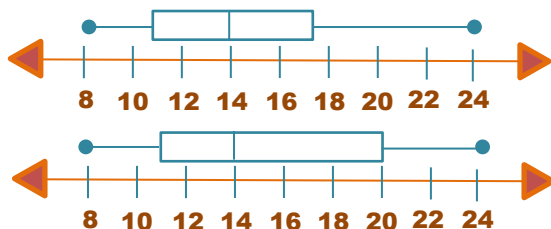
(B) 0

(C) - 5

(D) 10

3 Which box plot represents the data set :

8 , 8 , 9 , 11 , 12 , 13 , 13 , 14 , 15 , 15 , 16 , 17 , 18 , 18 , 24



5 $8 - 4 \div 2 \times 3 = \dots\dots\dots$

(A) 5 -

(B) 3

(C) 2

(D) -

6 In the expression: $2a + 5 + a + 1$, which of the following is not true ?

(A) 2 and 5 are constant .

(B) 5 and 1 are constant

(C) 2 and 1 are coefficient.

(D) $2a$ and a are like terms .

7 $4 - - 3 - = \dots\dots\dots$

(A) 1 -

(B) -

(C) -

(D) 1

8 A number is no more than 8 can be written as $\dots\dots\dots$

(A) $N \leq 8$

(B) $n < 8$

(C) $n > 8$

(D) $n \geq 8$

9 Seven squared add to 5 equals $\dots\dots\dots$

(A) $7^2 + 5$

(B) $2^7 + 5$

(C) $7 \times 2 \times 5$

(D) $7 + 2^5$

10 " 5 less d equals L " in equation is $\dots\dots\dots$

(A) $d - 5 = L$

(B) $5 - d = L$

(C) $5 - L = d$

(D) $5d = L$

11 if the opposite table shows the 5 - number summary of the weights of your family members about - of the weights have more than what number ?

(A) 60

(B) 75

(C) 95

(D) 105

Min.	Q1	MEDIAN	Q3	Max
60	75	95	105	120

12 A merchant sold 12 same boxes of mango for 3,000 L.E , then the price each box is $\dots\dots\dots$ L.E .

(A) 25

(B) 250

(C) 240

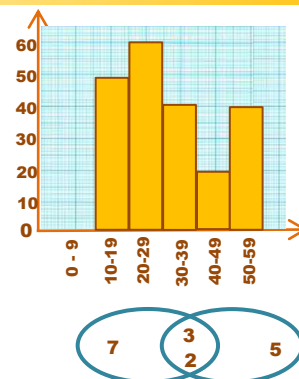
(D) 230

- 13 is lying between -1.4 and -0.9
- (A) -0.7 (B) -1.3 (C) -1.6 (D) -0.90
- 14 Which of the following are relatively prime numbers?
- (A) 2 and 6 (B) 4 and 9 (C) 4 and 8 (D) 10 and 15
- 15 -4 -8
- (A) $>$ (B) $<$ (C) $=$

Complete the following:



- In the opposite histogram
The class intervals having
The greatest frequency is
- In the opposite venn diagram , the L.C.M is
- The= the greatest value – the smallest value
- If $-x = -$, then $x =$
- $- + - + - =$
- The quotient of k and 3 written as
- $--- =$
- (3 ,) satisfies the rule : $y = -x + 1$



Answer the following answer :



- Find the L.C.M of 4 and 6 using venn diagram .



- The following data represents the ages of 30 workers in a company .

17	35	32	25	30	19	42	20	62	17
38	39	41	24	18	20	38	21	54	19
27	20	30	59	21	35	40	56	48	33

Draw a histogram to represent this data .

- Complete the following table according to the equation : $y = 2x + 1$

x	0	4	8	10	13
y	.....	.....	.....	.....	.....

TEST

5

Choose the correct answer



1 The outlier value of the following data set is

23 25 27 24 94 21 22 26

- (A) 21 (B) 27 (C) 49 (D) 94

2 The lower quartile for the set of data : 72 , 64 , 76 , 63 , 60 , 75 , 70 , 61 , 77 . is

- (A) 61 (B) 70 (C) 62 (D) 76

3 What is the range of the following data set ?

- (A) 4 (B) 3
(C) 5 (D) 7



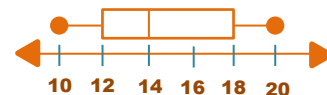
4 Wael has x L.E , his father gave him 5 L.E , then he has

- (A) $x - 5$ (B) $x + 5$ (C) $5x$ (D) -

5 From the opposite box plot

The difference between Q_3 and Q_1 is

- (A) 12 (B) 14 (C) 10 (D) 6



6 In the opposite line, the integer A is

- (A) -1 (B) -2 (C) -3 (D) -4



7 The coefficient in the algebraic expression $5 + 3x^2 + 1$ is

- (A) 5 (B) $3x^2$ (C) 3 (D) 1

8 The common factor of all numbers is

- (A) 0 (B) 1 (C) 2 (D) 3

9 - 0.5

- (A) > (B) < (C) =

10 The upper quartile for the set of data : 100 , 101 , 103 , 97 , 98 , 99 and 102 is

- (A) 103 (B) 102 (C) 98 (D) 00

11 $10 + 45 = 5$ [...]

- (A) 10 , 40 (B) 5 , 40 (C) 9 , 5 (D) , 9

12 10 less a number written as

- (A) $x - 10$ (B) $10 - x$ (C) $10 + x$ (D) -

13 the G.C.F of 6 and 9 is

- (A) 3 (B) 18 (C) 36 (D) 1

14 - -

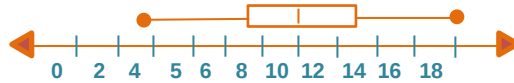
- (A) > (B) < (C) =

15 A number if added to 7 , the sum is 13 , then the number is

- (A) 5 (B) 20 (C) 6 (D) 15

- 16 “ 6 times m added to 2 equals n “ in equation is
 (A) $6m - 2 = n$ (B) $6n + 2 = m$ (C) $6m + 2 = n$ (D) $6 \times 2m = n$

- 17 Each of the following data could be
 Represented by the box plot except



- (A) 3,5,7,8,9,10,10,11,13,14,18 (B) 3,6,7,7,8,10,11,12,13,15,18
 (C) 3,4,6,7,9,10,11,11,13,17,18 (D) 3,4,7,9,9,10,12,13,13,16,18
- 18 The number -9 the set of rational number .
 (A) Belongs to (B) does not belong to
 (C) Is subset from (D) is not subset from

Complete the following question :

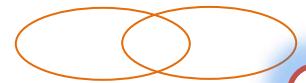


- The balance of the following data set : 17 , 18 , 20 , 20 , 20 , 21 , 21 , 21 and 22 is
- $10 \div 5 + 2^3 - 4 = \dots\dots\dots$
- If $6y = 18$, then $-y = \dots\dots\dots$
- The distance between 5 and $|-5|$ on the number line isunit (s)
- The values that lie outside most of the other values in asset of data called
- In the equation : $3,410 \div 63 = 54 \text{ R}8$, the divisor is
- The verbal phrase for : $h + 12 = 19$ is
- $18 + 9 = 9 (\dots\dots\dots + \dots\dots\dots)$
- If the mean of 3 , 7 , 4 , 6 , x is 5 , then x =

Answer the following questions :



- Find the G.C.F and L.C.M of 10 and 30 using venn diagram .



- The following table shows the daily wages of 50 workers of a company .

Sets	120 – 129	130 – 139	140 – 149	150 – 159	160 – 169
Frequency	8	10	16	12	4

Draw histogram for this distribution

- Wafaa’s flower garden consists of – cornflowers and – poppies . the rest of the garden is filled with the roses . what is the fraction of the roses in wafaa’s garden ?

- Examine these two expressions and determine whether they are equal if so , consider whether they are always equal . complete each tasks .

$$4(x + 1)$$

$$3x + x$$

- Try to find a value for x that will make the expressions not equal .
- Decide if these two expressions are always equal and if they should be considered equivalent expressions .

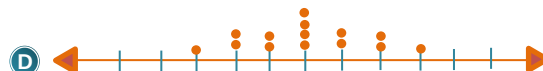
TEST

6

Choose the correct answer



- 1 The number -9 the set of rational number .
 (A) Belongs to (B) does not belong to
 (C) Is subset from (D) is not subset from
- 2 $2^3 =$
 (A) 2×2 (B) 3×3 (C) 3^2 (D) 8
- 3 The smallest number from the following is
 (A) 0.11 (B) 0.2 (C) 0.3 (D) 0.101
- 4 In the equation: $1,860 \div 32 = 58 \text{ R } 4$, the remainder is
 (A) 1,860 (B) 32 (C) 58 (D) 4
- 5 Which are the three possible solutions for the inequality $z > 12$?
 (A) 5,7,9 (B) 10,12,14 (C) 13,17,22 (D) 12,22,32
- 6 The lower quartile for the set of data : 23,21,17,18,20 and 19 is
 (A) 17 (B) 18 (C) 19 (D) 20
- 7 The first operation you perform in the expression: $10 \div 56 + (3 - 1)^2$ is
 (A) Add (B) subtract (C) exponent (D) divide
- 8 In the equation: $y = -x$, if the input is 12 , then the output is
 (A) 48 (B) 3 (C) 12 - (D) 11 -
- 9 $|-8| >$
 (A) $|-7|$ (B) $|-8|$ (C) $|-9|$ (D) $|-10|$
- 10 Which of the following is an integer?
 (A) — (B) - - (C) - - (D) 0.4
- 11 The better measure of central tendency the following data set is
 (A) Mean (B) median (C) either
- 12 which expression is equivalent to $2x + 10$?
 (A) $2(x + 5)$ (B) $12x$ (C) $20x$ (D) $2x + 4 + 2$
- 13 “ y equals the product of “ x and 3 “ in the equation is
 (A) $Y = 3x$ (B) $5x + 3$ (C) $29 - 3^3$ (D) $2(4 + 5)$
- 14 In which dot plot graph , the outlier increases the mean ?



Complete the following :

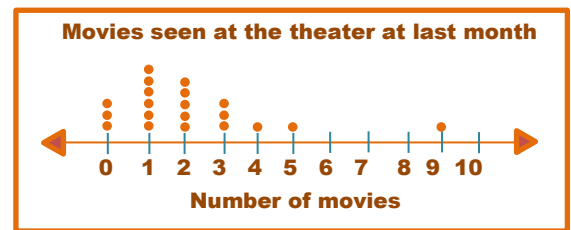


- From the opposite number line the integer for point A isand its opposite is
- If $8m = 0$, then $100m =$
- The absolute values of the two opposites are
- The coefficient of $2 + 3a - 5$ is
- The distance between -3 and 0 on the number line equalsunit (s)
- The smallest number of (0.1 , $—$, 0.7 , 2.1) is
- The age of bassem now is x years old , then his age after 3 years is
- The median of the values $k + 1$, $k + 2$, $k + 3$, $k + 4$ and $k + 5$ is 13 , then $k =$



From the opposite dot plot , Answer the following questions :

- How many people were surveyed ?
- How many people saw 3 movies ?
- How many people saw 2 movies or more ?



Evaluate the expression : $5x^2 + 8 \div (6 - 4) \div 2$ at $x = 3$

An owner of a packing food factory wanted to pack 15,708 kilograms of sugar equally in 68 packs . What is the mass of each pack ?



01068692290

TEST

7

Choose the correct answer



1 $9(5 + 6) = \dots\dots\dots + 54$

A 45

B 95

C 96

D 36

2 The G.C.F of two relatively prime numbers is

A 0

B 1

C 2

D 3

3 The absolute value of the opposite of -1 is

A $2-$

B 0

C $1-$

D $-1-$

4 Mohamed has 60 L.E , his friend ali has less money than Mohamed , the ali may has

A 53

B 61

C 100

D 60

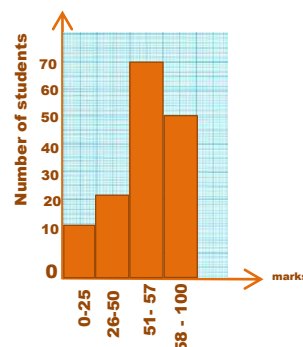
5 In the opposite histogram:
How many students get more
Then 50 marks?

A 20

B 50

C 70

D 120



6 The number 2.71 belongs to Numbers

A Counting

B natural

C integer

D rational

7 The median for the set of values : 109 , 90 , 114 , 120 , 97 , 104 , 93 , 98 , 127 , 94 is ...

A 98

B 101

C 104

D 107

8 Which of the following are like terms ?

A 23 and 32

B ba and bc

C ab^2 and ac^2

D l and m

9 $1 - + 2 - = \dots\dots\dots$

A $3 -$

B $3 -$

C $3 -$

D $3 -$

10 The range of values : 5 , 9 , 10 , 7 and 4 is

A 5

B 6

C 7

D 10

11 $5^4 = \dots\dots\dots$

A 4^5

B 4×5

C $5 \times 5 \times 5 \times 5$

D $4 \times 4 \times 4 \times 4 \times 4$

12 The greatest number from the following is

A $-$

B $-$

C $-$

D $-$

13 The mean of values : 3 , 5 , 4 , 7 and 6 is

A 3

B 4

C 5

D 6

14 The smallest non-negative integer is

- (A) -1 (B) -2 (C) 0 (D) 1

15 $19,160 \div 56 = 342 \text{ R } \dots\dots\dots$

- (A) 7 (B) 8 (C) 9 (D) 10

16 $16 + 24 = 8 (2 + \dots\dots\dots)$

- (A) 24 (B) 16 (C) 2 (D) 3

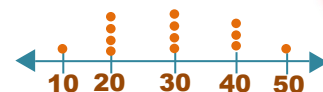
17 The additive inverse of -2 is

- (A) -2 (B) 2 (C) 0 (D) 4

Complete the following :



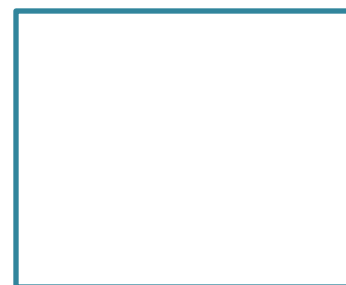
- $3 - + 1 - = \dots\dots\dots$
- " 4 increased by L equals q " in equation is
- The median for the set of values : 15 , 15 , 17 , 18 , 19 , 21 , 22 , 22 , 23 is
- If $k + 1 = 5$, then $k - 2 = \dots\dots\dots$
- The L.C.M of 5 and 8 is
- $|-4| + |3\frac{1}{2}| = \dots\dots\dots$
- In the opposite dot plot , the median is



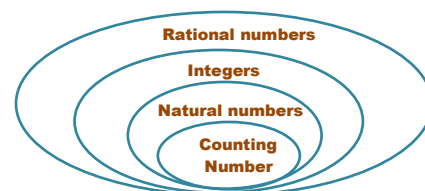
Answer the following questions :



- Arrange in a descending order : -8 , $|-7|$, 2 , 0 ,
The order is :
- One time , 161 soil samples were sent in equals groups to 23 labs .
How many soil samples were sent to each lab ?
.....
.....
- A factory produces 48 pieces of cloth daily .
How many days does it produce 1,152 pieces of cloth .
.....
.....



- Write the following numbers in the opposite Venn diagram .
 34 , $2 -$, 0.225 , -10 , 0 , $-$



TEST

8

Choose the correct answer



1 The range of values : 9 , 10 , 3 , 1 , 8 , 11 , 0 is

A 1

B 0

C 11

D 10

2 Three cubed add to five squared equals

A $3 \times 3 + 5 \times 5$

B $3^3 + 5^3$

C $3^2 + 5^3$

D $3^3 + 3^5$

3 In the equation : $m = 3n + 4$, the dependent variable is

A M

B 3

C n

D 4

4is lying between 2.14 and 2.2

A 2.15

B 2.21

C 2.20

D 2.22

5 The mean of values which represents

The opposite dot plot is

A 6

B 7

A 8

B 9



6 The best subset of -4 isnumbers .

A Counting

B natural

C integer

D rational

7 The opposite histogram shows

The number of magazines read

Last week by students in your class .

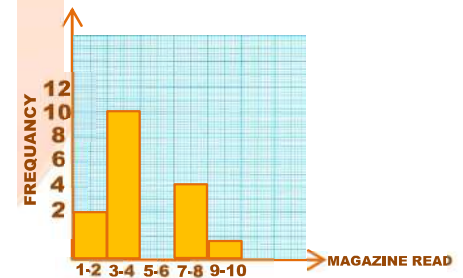
Which interval contains the fewest data ?

A 1-2

B 3-4

A 5-6

B 7-8



8 If the lower quartile of the values : $k + 14$, $k + 10$, $k + 12$, $k + 15$, $k + 16$, $k + 11$, $k + 14$, $k + 17$ where k is appositve integer is 16.5 , then $k =$

A 3

B 4

C 5

D 6

9 $5\frac{1}{2} + 3\frac{1}{5}$

A $8\frac{2}{7}$

B $8\frac{7}{10}$

C $8\frac{1}{2}$

D $8\frac{2}{5}$

10 The equation that represents the opposite figure is

A $X + 2 = 6$

B $2x = 6$

A $X + 2 = 5$

B $2x = 3$



11 In the opposite venn diagram , the L.C.M is

A 1

B 3

A 2×5

B 30



- 12) $6,280 \div 25 = \dots\dots\dots$
- A 215 R5 B 251 R5 C 251 D 255 R 1
- 13) The mode of the values : 5 , 3 , 2 , 5 , 8 , 1 , 5 and 4 is
- A 1 B 2 C 3 D 5
- 14) Which of the following is equivalent to the expression : $5x + 3 + x$?
- A $6x + 2$ B $8x + x$ C $3(2x + 1)$ D $9x$
- 15) The outlier of the following values : 32 , 37 , 36 , 5 , 40 , 38 and 39 is
- A 32 B 40 C 5 D 39

Complete the following :



- In the opposite dot plot , the median is
- The verbal form of " k^2 " is
- Hoda bought 15 pens for 180 L.E , then the price of each pen isL.E
- The outlier value of the following data set is

203

204

205

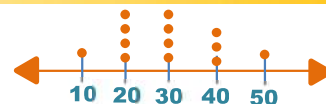
23

206

207

202

201
- In the equation : $l = 4m - 3$, the independent variable is
- Youssef read at least 4 books monthly , then he may be readbook (s)
- $4 + 3^2 \times 2 \div (3 - 1) = \dots\dots\dots$
- The smallest non – negative rational number is
- The verbal form of " $k^3 + 1$ " is
- In the equation : $5x + 3 = y$, the dependent variable is
- is a solution of the inequality $x > -5$

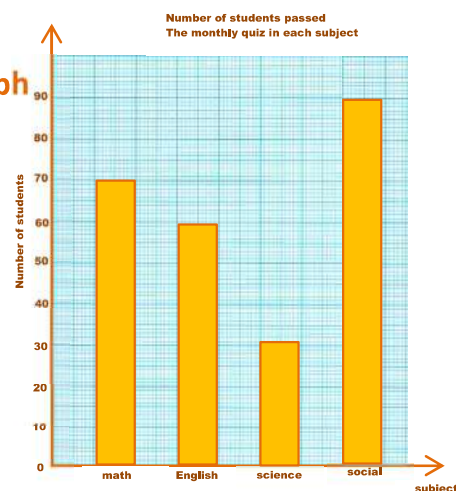


Answer the following answers :



From the opposite graph answer the following questions :

- Write a statistical questions you have been asked to graph This bar graph
.....
.....
- How many students passed in math quiz ?
.....
- How many subject have at least 60 students passed the quiz ?
.....
- Which subject has the lowest number of students passed the quiz ?
.....



Find a rational number lying between $\frac{3}{5}$ and $\frac{2}{3}$
.....

TEST

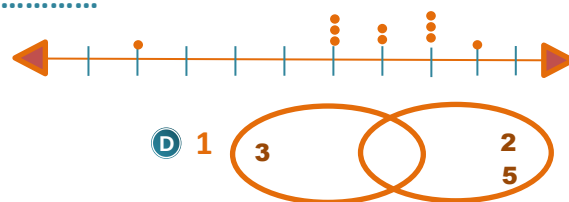
9

Choose the correct answer



- 1 The set of integersthe set of rational numbers.
 (A) Belongs to (B) does not belong to
 (C) Is a subset of (D) is not a subset of
- 2 The number of like terms in the expression: $4 + 3x + 2$ is
 (A) 4 (B) 3 (C) 2 (D) $3x$
- 3 $2 - -1 - =$
 (A) $1 -$ (B) $-$ (C) $1 -$ (D) $-$
- 4 $--$ zero
 (A) $>$ (B) $<$ (C) $=$
- 5 The value of the expression : $5n - 2$ for $n = 1$ is
 (A) 5 (B) 3 (C) -2 (D) 1
- 6 All the following are a solution of the inequality : $x < -1$ except
 (A) -5 (B) -4 (C) -3 (D) -1
- 7 The better measure of center for the following data set is
 (A) Mean (B) median (C) either
- 8 In the opposite venn diagram , the G.C.F is
 (A) 3 (B) 5 (C) 2 (D) 1
- 9 If $- = 3$, then $x =$
 (A) 2 (B) 3 (C) 6 (D) 1.5
- 10 $35 + 42 =$ ($5 + 6$)
 (A) 35 (B) 30 (C) 6 (D) 7

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Complete the following :



- The value of expression $4l - 2$ for $l = 3$ is
 - In the opposite venn diagram , the G.C.F is
 - The median of the following data which is represented by the dot plot
-
- $-3 -$ in the form $-$ is
 - The verbal form of " $2x + 3$ " is
 - The greatest non - positive integer is



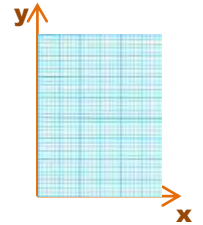
- The integers between -4 and 2 are
- The rule is “ multiply by 4 “ where x is the independent variable , if $x = -$, then y would be
- $|- -| \div 1\frac{1}{2} = \dots\dots\dots$
- If $x + 3 = 5$ then $3x = \dots\dots\dots$
- The independent variable in the equation $5L - 3 = m$ is.....
- $15,015 \div 15 = \dots\dots\dots$

Answer the following questions



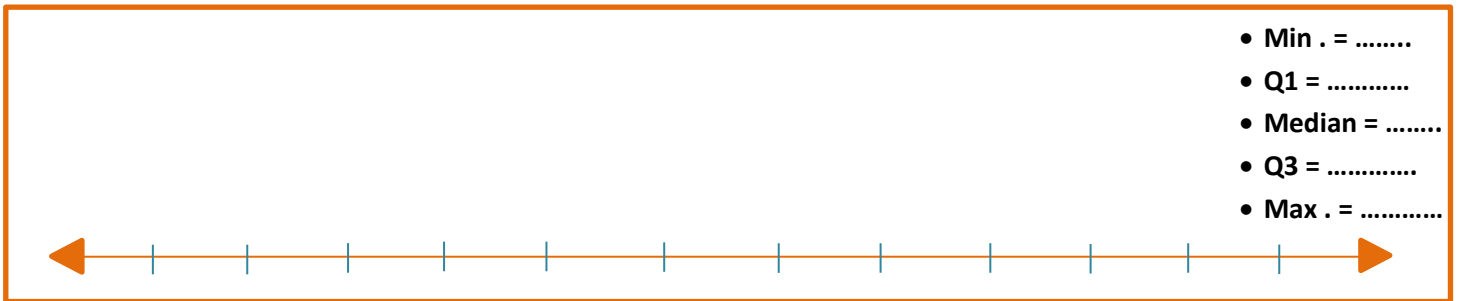
- Complete the following table , then represent it graphically the equation : $y = x + 1$

x	0	1	2
y	.....	.....	.....
(x , y)	(0 ,)	(1 ,)	(2 ,)



- draw the box plot for the following data .

5 , 7 , 13 , 11 , 2 , 1 , 2 , 14 , 16 , 10 , 3



- Mira has 25 L.E in her money box she will save 20 L.E daily

- What the algebraic expression represent this situation ?
.....
- How much money in her money box after 3 days ?
.....
- How much money in her money box after 6 days
.....

حمل الآن

مجاناً وحصرياً

امتحانات رقم (7)

الترم الاول



Model (1)

Question 1 : Choose the correct answer :

- ① The additive inverse of the number -20.5 is
 (a) 20 (b) 0 (c) $|-20.5|$ (d) -20.5
- ② An integer lying between 6 and -6 is
 (a) -6 (b) -1 (c) -7 (d) all of them
- ③ The product of the multiplicative identity and the greatest non-positive number is
 (a) 1 (b) 0 (c) 2 (d) -1
- ④ The mean of 8 , 7 , 1 , 4 is
 (a) 5 (b) 5.5 (c) 7 (d) 0
- ⑤ The greatest integer satisfies the inequality $m < 2$ is
 (a) -3 (b) 100 (c) 2 (d) 1
- ⑥ If : $x + 1 = 7$, then the value of half x is
 (a) 6 (b) 4 (c) 8 (d) 3
- ⑦ $360 \div 24 =$
 (a) 15 (b) 12 (c) 240 (d) 36

Question 2 : Complete the following :

- ① $5 \times 5 \times 5 \times 5 = 5$
- ② The lower quartile for the values (4 , 6 , 4 , 7 , 20) is
- ③ LCM for 12 and 6 is
- ④ The algebraic expression $5 + 4x - 2n - 3c$ is formed fromterms.
- ⑤ $3240 \div 8 =$
- ⑥ The opposite of $\frac{5}{9}$ is
- ⑦ GCF of 5 and 11 is
- ⑧ If $6m = 12$, then $m + 5 =$

Question 3 : Choose the correct answer :

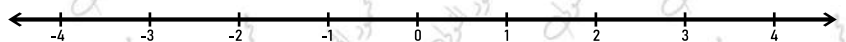
- ① The smallest odd prime number is
 (a) 0 (b) 1 (c) 2 (d) 3
- ② $6^2 =$
 (a) 12 (b) 6 (c) 36 (d) 8
- ③ If $\frac{a}{b}$ is a rational number ,then b not equal
 (a) a (b) 0 (c) 1 (d) negative number
- ④ The like terms in the expression : $x + 2 + y + 5$ are
 (a) x,y (b) x,2 (c) 5,2 (d) 2,y
- ⑤ The solution of the equation : $3x - 5 = 10$ is
 (a) 5 (b) 3 (c) 10 (d) x
- ⑥ An integer just after -5 is
 (a) 5 (b) -4 (c) -6 (d) -5
- ⑦ The first operation you preform in the expression $4 - (8 + 5^3) \times 20$ is
 (a) multiply (b) add (c) exponent (d) divide

Question 4 : Answer the following :

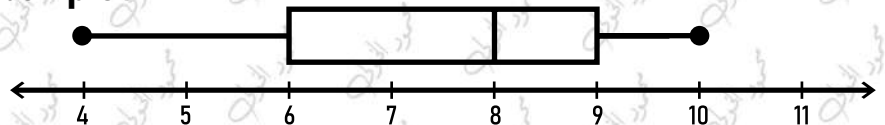
- ① Find the result of : $(3 \times 5 - 2m) + 10$,when $m = 6$

- ② A school with 816 students . they will be distributed equally into 24 classes .
 what is the number of students in each class ?

- ③ Put this numbers on the number line : 2.9 , $-1\frac{2}{7}$, - 3.4 , 0.8



- ④ Answer from the opposite box plot

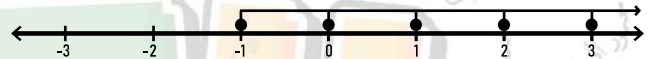


- 1- The median is
- 2- The lower quartile is
- 3- The upper quartile is
- 4- The minimum value is.....
- 5- The maximum value is



Question 1 : Choose the correct answer :

- 1 The mean = the sum of valuesthe number of this values
 (a) + (b) - (c) $\times$ (d) $\div$
 - 2 The best subset for the number 0 is
 (a) counting numbers (b) integers (c) natural numbers (d) rational numbers
 - 3 If $|x| = 6$, then $x =$
 (a) 12 (b) 6 (c) -6 (d) both b,c
 - 4 - 100 0
 (a) < (b) > (c) = (d) $\geq$
 - 5 The pervious of the number -8 is
 (a) -8 (b) -7 (c) -9 (d) 0
 - 6 Which of the following is not a numerical expression ?
 (a) $2 + 4 - 7^4$ (b) $(15 + 3) \times 2$ (c) $7(3 - 2)$ (d) $4x + 5$
 - 7+.....= 6 (2 + 3)
 (a) 12,3 (b) 6,5 (c) 12,18 (d) 1,2
- The inequality that represented by the opposite number line in the set of integers is...
- 8 (a) $x > -1$ (b) $x < -1$ (c) $x \geq -1$ (d) $x \leq -1$

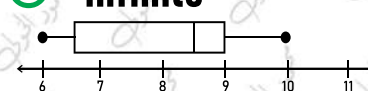


Question 2 : Complete the following :

- 1 The median of the following data which represented by the dot plot is.....
- 2 The smallest non-negative integer is.....
- 3 In the equation : $4n + 7 = h$, the dependent variable is.....
- 4 The number whose prime factors are 2,2,3,3 is.....
- 5 $-5\frac{2}{3}$ in the form $\frac{a}{b}$ is.....
- 6 The algebraic expression which represent : the sum of triple x and the number 6 is....
- 7 The mean of the values (12 , 6 , 7 , 5 , 5) is
- 8 -1.32 is.....to the set of integers .

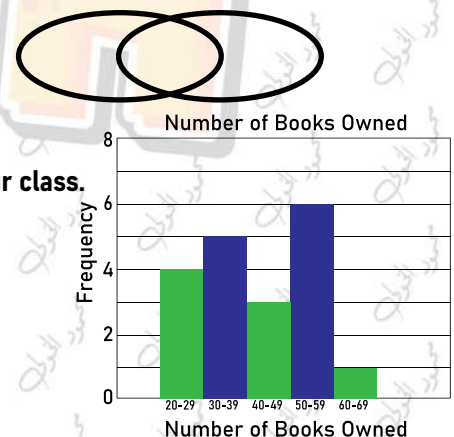


Question 3 : Choose the correct answer :

- 1 $(2.5 \div 0.5)^2 + 10 - 4 = \dots\dots\dots$
 - a 31
 - b 16
 - c 35
 - d 10.5
- 2 Each number in the set of counting is called
 - a set
 - b integer
 - c subset
 - d element
- 3 $8 + 24 = 8 (1 + \dots\dots\dots)$
 - a 8
 - b 23
 - c 8
 - d 3
- 4 $|-6| + |5| = \dots\dots\dots$
 - a -11
 - b 11
 - c 1
 - d -1
- 5 If $y = 2 + 3x$, then (..... , 11) satesfies the equation .
 - a 0
 - b 35
 - c 3
 - d 33
- 6 The number of rational numbers lying between 5 and its opposite is
 - a 10
 - b 5
 - c 0
 - d infinite
- 7 From the opposite box plot : the upper quartile is
 
 - a 8.5
 - b 6.5
 - c 10
 - d 9

Question 4 : Answer the following :

- 1 Arrange the following values in ascending order :
-10 , - 18 , 23 , 0 , 190 , 0.25
.....
- 2 Find GCF and LCM for 12 and 18 by using venn diagram
.....
.....
.....
- 3 The opposite histogram shows number of books Owned by the students in your class.
 - A- How many students own less than 40 books.....
 - B- How many students own more than 39 books.....
 - C- Which interval has the least number of student.....
 - D- Which interval has the highest number of students.....
- 4 If the ticket of entering a car park is 30 pounds and 9 pounds for each hour you spend. What is the cost of spending 3 hours in the park ? " Write the algebraic expression "
.....
.....



Model (3)

Question 1 : Choose the correct answer :

- ① Which measure of central tendency the best if their an extreme value (outlier) .
 (a) median (b) mean (c) both a,b (d) range
- ② The set of natural numbers The set of rational numbers
 (a) belong (b) not belong (c) subset (d) not subset
- ③ Which data is a descriptive data ?
 (a) weight (b) favorite color (c) age (d) length
- ④ If $x \leq -5$,then the largest integer satisfies the inequality is
 (a) 5 (b) -4 (c) -5 (d) 0
- ⑤ The additive inverse of the number $|-10|$ is
 (a) -10 (b) 10 (c) 0 (d) $|-10|$
- ⑥ The GCF of 5 and 15 is
 (a) 5 (b) 15 (c) 1 (d) 0
- ⑦ The number of terms of the expression $2n - 6 + 15m + 14 \times 2$ isterms
 (a) 7 (b) 6 (c) 5 (d) 4

Question 2 : Complete the following :

- ① $m + m = 6$, then $m =$
- ② The LCM of 10 and 8 is
- ③ The median of the values $a + 1$, $a + 2$, $a + 3$, $a + 4$ and $a + 5$ is 23 then $a =$
- ④ 6 increased by b equal t ,then the equation is
- ⑤ In the algebraic expression $e + 2b + 6$,the constant is
- ⑥ Theof a number is the distance between the number and zero .
- ⑦ In $5h + 20 = f$, the independent variable is
- ⑧ Number of like terms in the expression $2b + 5 - 0.2n + 5b$ isterms .



Question 3 : Choose the correct answer :

- ① The area of the square whose side length 5 cm in exponential form is
 - (a) 20
 - (b) 25
 - (c) 5^2
 - (d) 2^5
- ② $-|-2| > \dots\dots\dots$
 - (a) $|-2|$
 - (b) 0
 - (c) -2
 - (d) -100
- ③ All of the following numbers are rational except
 - (a) 0
 - (b) $\frac{7}{5-2}$
 - (c) -45.23
 - (d) $\frac{6}{2-2}$
- ④ In the opposite venn diagram ,the GCF is
 - (a) 5
 - (b) 1
 - (c) 30
 - (d) 10
- ⑤ The mean of the dataset (6 , 12 , 2 , 4) is
 - (a) 10
 - (b) 24
 - (c) 5
 - (d) 6
- ⑥ The best subset for the number -2.6 is
 - (a) counting numbers
 - (b) integers
 - (c) natural numbers
 - (d) rational numbers
- ⑦ The smallest natural integer is
 - (a) 0
 - (b) -1
 - (c) 1
 - (d) -100

Question 4 : Answer the following :

- ① Draw a box plot for this set of data.
ages of children taking math classes: 10, 8, 9, 7, 10, 12, 14, 14, 10, 16
- 
- ② Masa bought some books for 34 LE each . What is the number of books can Masa buy with 612 LE ?
.....
 - ③ Write the equation use the variables x and y , x is the independent variable “ multiply by 6 and add 5 “ ,then substitute $x = \frac{1}{2}$ to evaluate y .
.....
 - ④ Evaluate the expression : $5x^2 + 8 \div (8 - 6) \div 2$,when $x = 2$.
.....
.....

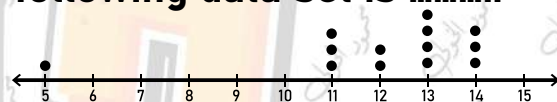
Model (4)

Question 1 : Choose the correct answer :

- ① A frequency its range 40 and the smallest value is 15 ,then the greatest value is
 (a) 25 (b) 40 (c) 55 (d) 30
- ② The number whose all factors are 1,2,3,6 is
 (a) 36 (b) 24 (c) 12 (d) 6
- ③ The mean = ÷ number of values
 (a) median (b) range (c) sum of values (d) difference
- ④ In the expression : $6x + 14 - b$, the coefficient of the variable d is.....
 (a) 6 (b) 14 (c) 1 (d) -1
- ⑤ The smallest positive integer is
 (a) 0 (b) 1 (c) -1 (d) 2
- ⑥ A number whose prime factors are 2 , 5 and 7 is
 (a) 7 (b) 10 (c) 14 (d) 70
- ⑦ $c \div 9 = 5$,then c is
 (a) 45 (b) 9 (c) 4 (d) 14

Question 2 : Complete the following :

- ① The best measure of central tendency of the following data set is
- ② $x > 5$ represent
- ③ $5 (4 + 2) = + 10$
- ④ The common factor of all numbers is
- ⑤ The value that lie outside most of the other values in a set of data called
- ⑥question is a question that has only one answer.
- ⑦ is a graph that has no gaps between bars .
- ⑧is the middle value in a set of values after arranging it



Question 3 : Choose the correct answer :

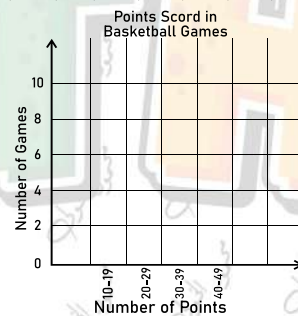
- 1 From the opposite table : about $\frac{3}{4}$ of the data more than what number ?
 (a) 8 (b) 11 (c) 14 (d) 21
- 2 $2\frac{3}{7} + \frac{2}{5} = \dots$
 (a) $2\frac{5}{12}$ (b) $2\frac{29}{35}$ (c) $\frac{29}{35}$ (d) 3
- 3 If $-|x| = -10$, then $x = \dots$
 (a) -10 (b) 10 (c) both a,b (d) 20
- 4 Integer that expresses the profit 100 LE is
 (a) -1 (b) 200 (c) -100 (d) 100
- 5 The range of the values (30 , 47 , 20 , 17 , 25) is
 (a) 17 (b) 30 (c) 20 (d) 47
- 6 Your weight isdata .
 (a) numerical (b) categorical (c) descriptive (d) all of them
- 7 The prime factors of 10 are
 (a) 1,10 (b) 2,8 (c) 2,5 (d) 3,7

min	Q_1	median	Q_3	max
8	11	14	21	24

Question 4 : Answer the following :

- 1 Complete the table ,then Draw a histogram to represent each set of data.
 number of points scored in each basketball game : 28, 16, 38, 44, 21, 38, 35, 48, 33, 29, 37, 39, 18, 38, 42, 37, 32

INTERVEL	FREQUENCY
10 - 19	
20 - 29	
.....	
.....	



- 2 Complete the following table according to the equation : $y = 3x + 2$

X	0	2	4	6
Y	...	...	...	...

- 3 Show that the following expressions are equivalent or not by using substituting
 $2(2t + 9)$, $4t + 18$
- 4 Rahma bought 56 meters of cloth with 6,944 LE , find the price of each meter ?

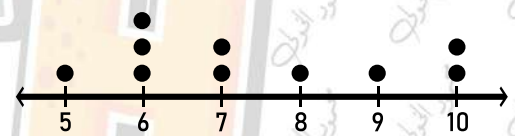
Model (5)

Question 1 : Choose the correct answer :

- ① The mean of 5 , 8 , 6 , x is 5 ,then x =
 (a) 0 (b) 1 (c) 2 (d) 3
- ② The numberneither positive nor negative
 (a) 0 (b) 1 (c) -1 (d) 0.5
- ③ The natural numbersthe counting numbers .
 (a) belong (b) not belong (c) subset (d) not subset
- ④ $5m + 8 \leq 12$ is
 (a) Algebraic term (b) equation (c) expression (d) inequality
- ⑤ To find the value of $5 \times 4 \div 10 - (7 + 8)$, we must dofirst .
 (a) subtraction (b) addition (c) multiplication (d) division
- ⑥ $|-12.25| =$
 (a) -12 (b) 12 (c) -12.25 (d) 12.25
- ⑦ Subtract 2.5 from m ,then multiply the result by 2 is
 (a) $(2.5 - m) \times 2$ (b) $2.5 - m \times 2$ (c) $(m - 2.5) \times 2$ (d) $m - 2.5 \times 2$

Question 2 : Complete the following :

- ① The mode of the opposite data set is
- ② If $x + 20 = 26$,then $0.5x =$
- ③ $15 \div 3 + 9 - 14 =$
- ④ The range of the values : 14 , 5 , 14 , 70 , 63 , 20 , 12 is
- ⑤ The distance between 4 and $|-4|$ is
- ⑥ Double of the number b is
- ⑦ The variable in the equation : $10 + 2m - 2.3 = 40$ is
- ⑧ (8 ,) satisfies the rule : $y = \frac{1}{2}x + 2$



Question 3 : Choose the correct answer :

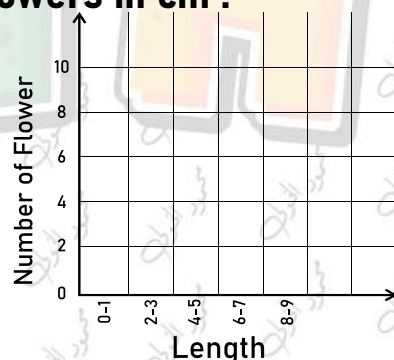
- 1is a descriptive data .
 (a) weight (b) age (c) Tall (d) your father name
- 2 The equation is a mathematical expression containsbetween two mathematical sentences.
 (a) > (b) < (c) = (d) ≥
- 3 $-2\frac{5}{9}$ $-5\frac{7}{9}$
 (a) > (b) < (c) = (d) ≥
- 4 The outlier for the set of data : 105 , 102 , 16 , 114 , 116 , 110 is
 (a) 114 (b) 16 (c) 100 (d) 50
- 5 One is the only common factor of.....numbers
 (a) relatively prime (b) composite (c) even (d) odd
- 6 The integers isnumbers .
 (a) counting (b) natural (c) rational (d) all of them
- 7 $- (-5) = \dots\dots\dots$
 (a) -5 (b) 5 (c) 0 (d) 10

Question 4 : Answer the following :

- 1 Find the mean , median , mode , range and outlier for the following data :
 (12 , 5 , 3 , 3 , 4 , 7 , 8)

- 2 The following table represents lengths of flowers in cm :
 Represent this data by histogram.

Length	0-1	2-3	4-5	6-7	8-9
Number of Flower	5	10	8	1	2



- 3 Malak need 30 to by a CD . She doesn't have enough money to buy it. Write 4 possible amounts of money that Malak has.

- 4 Find four rational numbers lying between : 2.4 and 2.5



Model Answer (1)

Question 1 : Choose the correct answer :

- 1 The additive inverse of the number -20.5 is
 (a) 20 (b) 0 (c) **-20.5** (d) -20.5
- 2 An integer lying between 6 and -6 is
 (a) -6 (b) **-1** (c) -7 (d) all of them
- 3 The product of the multiplicative identity and the greatest non-positive number is
 (a) 1 (b) **0** (c) 2 (d) -1
- 4 The mean of 8, 7, 1, 4 is
 (a) **5** (b) 5.5 (c) 7 (d) 0
- 5 The greatest integer satisfies the inequality $m < 2$ is
 (a) -3 (b) 100 (c) 2 (d) **1**
- 6 If : $x + 1 = 7$, then the value of half x is
 (a) 6 (b) 4 (c) 8 (d) **3**
- 7 $360 \div 24 =$
 (a) **15** (b) 12 (c) 240 (d) 36

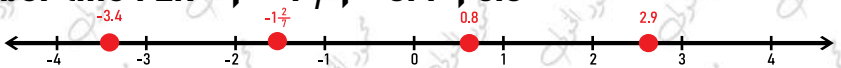
Question 2 : Complete the following :

- 1 $5 \times 5 \times 5 \times 5 = 5^4$
- 2 The lower quartile for the values (4 , 6 , 4 , 7 , 20) is **4**
- 3 LCM for 12 and 6 is **12**
- 4 The algebraic expression $5 + 4x - 2n - 3c$ is formed from **4** terms.
- 5 $3240 \div 8 =$ **405**
- 6 The opposite of $\frac{5}{9}$ is **$-\frac{5}{9}$**
- 7 GCF of 5 and 11 is **1**
- 8 If $6m = 12$, then $m + 5 =$ **7**

Question 3 : Choose the correct answer :

- 1 The smallest odd prime number is
 (a) 0 (b) 1 (c) 2 (d) **3**
- 2 $6^2 =$
 (a) 12 (b) 6 (c) **36** (d) 8
- 3 If $\frac{a}{b}$ is a rational number ,then b not equal
 (a) a (b) **0** (c) 1 (d) negative number
- 4 The like terms in the expression : $x + 2 + y + 5$ are
 (a) x,y (b) x,2 (c) **5,2** (d) 2,y
- 5 The solution of the equation : $3x - 5 = 10$ is
 (a) **5** (b) 3 (c) 10 (d) x
- 6 An integer just after -5 is
 (a) 5 (b) **-4** (c) -6 (d) -5
- 7 The first operation you preform in the expression $4 - (8 + 5^3) \times 20$ is
 (a) multiply (b) add (c) **exponent** (d) divide

Question 4 : Answer the following :

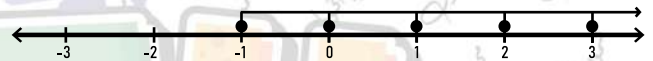
- 1 Find the result of : $(3 \times 5 - 2m) + 10$,when $m = 6$
 **$(3 \times 5 - 2 \times 6) + 10 = 13$**
- 2 A school with 816 students . they will be distributed equally into 24 classes .
 what is the number of students in each class ?
 **$816 \div 24 = 34$ students**
- 3 Put this numbers on the number line : 2.9 , $-1\frac{2}{7}$, - 3.4 , 0.8

- 4 Answer from the opposite box plot

 - 1- The median is **8**
 - 2- The lower quartile is **6**
 - 3- The upper quartile is **9**
 - 4- The minimum value is **4**
 - 5- The maximum value is **10**



Question 1 : Choose the correct answer :

- ① The mean = the sum of valuesthe number of this values
 (a) + (b) - (c) $\times$ (d) $\div$
- ② The best subset for the number 0 is
 (a) counting numbers (b) integers (c) natural numbers (d) rational numbers
- ③ If $|x| = 6$, then $x =$
 (a) 12 (b) 6 (c) -6 (d) both b,c
- ④ -100 0
 (a) $<$ (b) $>$ (c) $=$ (d) $\geq$
- ⑤ The pervious of the number -8 is
 (a) -8 (b) -7 (c) -9 (d) 0
- ⑥ Which of the following is not a numerical expression ?
 (a) $2 + 4 - 7^4$ (b) $(15 + 3) \times 2$ (c) $7(3 - 2)$ (d) $4x + 5$
- ⑦ + = $6(2 + 3)$
 (a) 12,3 (b) 6,5 (c) 12,18 (d) 1,2
- ⑧ The inequality that represented by the opposite number line in the set of integers is
 (a) $x > -1$ (b) $x < -1$ (c) $x \geq -1$ (d) $x \leq -1$



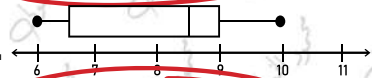
Question 2 : Complete the following :

- ① The median of the following data which represented by the dot plot is 4
- ② The smallest non-negative integer is 0
- ③ In the equation : $4n + 7 = h$, the dependent variable is h
- ④ The number whose prime factors are 2,2,3,3 is 36
- ⑤ $-5\frac{2}{3}$ in the form $\frac{a}{b}$ is $-\frac{17}{3}$
- ⑥ The algebraic expression which represent : the sum of triple x and the number 6 is $3x + 6$
- ⑦ The mean of the values (12 , 6 , 7 , 5 , 5) is 7
- ⑧ -1.32 is not belong to the set of integers.



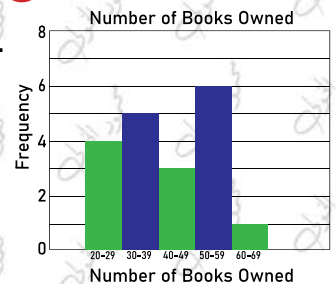
Question 3 : Choose the correct answer :

- 1 $(2.5 \div 0.5)^2 + 10 - 4 = \dots\dots\dots$
 (a) **31** (b) 16 (c) 35 (d) 10.5
- 2 Each number in the set of counting is called
 (a) set (b) integer (c) subset (d) **element**
- 3 $8 + 24 = 8 (1 + \dots\dots\dots)$
 (a) 8 (b) 23 (c) 8 (d) **3**
- 4 $|-6| + |5| = \dots\dots\dots$
 (a) -11 (b) **11** (c) 1 (d) -1
- 5 If $y = 2 + 3x$, then (..... , 11) satisfies the equation .
 (a) 0 (b) 35 (c) **3** (d) 33
- 6 The number of rational numbers lying between 5 and its opposite is
 (a) 10 (b) 5 (c) 0 (d) **infinite**
- 7 From the opposite box plot : the upper quartile is
 (a) 8.5 (b) 6.5 (c) 10 (d) **9**



Question 4 : Answer the following :

- 1 Arrange the following values in ascending order :
 $-10, -18, 23, 0, 190, 0.25$
 $\dots\dots\dots -18, -10, 0, 0.25, 23, 190 \dots\dots\dots$
- 2 Find GCF and LCM for 12 and 18 by using venn diagram
 $GCF = 2 \times 3 = 6$
 $LCM = 2 \times 2 \times 3 \times 3 = 36$
- 3 The opposite histogram shows number of books Owned by the students in your class.
 A- How many students own less than 40 books **9**
 B- How many students own more than 39 books **10**
 C- Which interval has the least number of student **60-69**
 D- Which interval has the highest number of students **50-59**
- 4 If the ticket of entering a car park is 30 pounds and 9 pounds for each hour you spend. What is the cost of spending 3 hours in the park ? " Write the algebraic expression "
 $\dots\dots\dots$ the algebraic expression is $9x + 30$
 $\dots\dots\dots$ the cost is $9 \times 3 + 30 = 57$ pounds



Model Answer (3)

Question 1 : Choose the correct answer :

- 1 Which measure of central tendency the best if their an extreme value (outlier) .
 (a) **median** (b) mean (c) both a,b (d) range
- 2 The set of natural numbers The set of rational numbers
 (a) belong (b) not belong (c) **subset** (d) not subset
- 3 Which data is a descriptive data ?
 (a) weight (b) **favorite color** (c) age (d) length
- 4 If $x \leq -5$,then the largest integer satisfies the inequality is
 (a) 5 (b) -4 (c) **-5** (d) 0
- 5 The additive inverse of the number $|-10|$ is
 (a) **-10** (b) 10 (c) 0 (d) $|-10|$
- 6 The GCF of 5 and 15 is
 (a) **5** (b) 15 (c) 1 (d) 0
- 7 The number of terms of the expression $2n - 6 + 15m + 14 \times 2$ isterms
 (a) 7 (b) 6 (c) 5 (d) **4**

Question 2 : Complete the following :

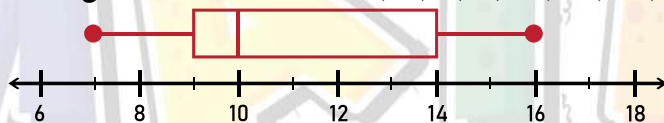
- 1 $m + m = 6$, then $m =$ **3**
- 2 The LCM of 10 and 8 is **40**
- 3 The median of the values $a + 1$, $a + 2$, $a + 3$, $a + 4$ and $a + 5$ is 23 then $a =$ **20**
- 4 6 increased by b equal t ,then the equation is **$6 + b = t$**
- 5 In the algebraic expression $e + 2b + 6$,the constant is **6**
- 6 The **absolute value** of a number is the distance between the number and zero .
- 7 In $5h + 20 = f$, the independent variable is **h**
- 8 Number of like terms in the expression $2b + 5 - 0.2n + 5b$ is **2** terms .



Question 3 : Choose the correct answer :

- ① The area of the square whose side length 5 cm in exponential form is
 (a) 20 (b) 25 (c) 5^2 (d) 2^5
- ② $-|-2| > \dots\dots\dots$
 (a) $|-2|$ (b) 0 (c) -2 (d) -100
- ③ All of the following numbers are rational except
 (a) 0 (b) $\frac{7}{5-2}$ (c) -45.23 (d) $\frac{6}{2-2}$
- ④ In the opposite venn diagram ,the GCF is
 (a) 5 (b) 1 (c) 30 (d) 10
- ⑤ The mean of the dataset (6 , 12 , 2 , 4) is
 (a) 10 (b) 24 (c) 5 (d) 6
- ⑥ The best subset for the number -2.6 is
 (a) counting numbers (b) integers (c) natural numbers (d) rational numbers
- ⑦ The smallest natural integer is
 (a) 0 (b) -1 (c) 1 (d) -100

Question 4 : Answer the following :

- ① Draw a box plot for this set of data.
 ages of children taking math classes: 10, 8, 9, 7, 10, 12, 14, 14, 10, 16

- ② Masa bought some books for 34 LE each . What is the number of books can Masa buy with 612 LE ?
 $612 \div 34 = 18$ books
- ③ Write the equation use the variables x and y , x is the independent variable “ multiply by 6 and add 5 “ ,then substitute $x = \frac{1}{2}$ to evaluate y .
 The equation is $y = 6x + 5$, then $x = 8$
- ④ Evaluate the expression : $5x^2 + 8 \div (8 - 6) \div 2$,when $x = 2$.
 $5 \times 2^2 + 8 \div (8 - 6) \div 2$
 $= 5 \times 4 + 8 \div 2 \div 2$
 $= 20 + 4 \div 2 = 20 + 2 = 22$

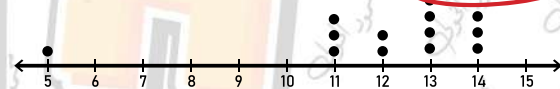
Model Answer (4)

Question 1 : Choose the correct answer :

- ① A frequency its range 40 and the smallest value is 15 ,then the greatest value is
 (a) 25 (b) 40 (c) **55** (d) 30
- ② The number whose all factors are 1,2,3,6 is
 (a) 36 (b) 24 (c) 12 (d) **6**
- ③ The mean = ÷ number of values
 (a) median (b) range (c) **sum of values** (d) difference
- ④ In the expression : $6x + 14 - b$, the coefficient of the variable d is.....
 (a) 6 (b) 14 (c) 1 (d) **-1**
- ⑤ The smallest positive integer is
 (a) 0 (b) **1** (c) -1 (d) 2
- ⑥ A number whose prime factors are 2 , 5 and 7 is
 (a) 7 (b) 10 (c) 14 (d) **70**
- ⑦ $c \div 9 = 5$,then c is
 (a) **45** (b) 9 (c) 4 (d) 14

Question 2 : Complete the following :

- ① The best measure of central tendency of the following data set is **median**
- ② $x > 5$ represent **inequality**
- ③ $5(4 + 2) =$ **20** $+ 10$
- ④ The common factor of all numbers is **1**
- ⑤ The value that lie outside most of the other values in a set of data called **outlier**
- ⑥ **non-statistical** question is a question that has only one answer.
- ⑦ **histogram** is a graph that has no gaps between bars .
- ⑧ **median** is the middle value in a set of values after arranging it



Question 3 : Choose the correct answer :

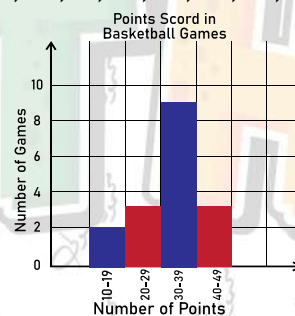
- ① From the opposite table : about $\frac{3}{4}$ of the data more than what number ?
 (a) 8 (b) **11** (c) 14 (d) 21
- ② $2\frac{3}{7} + \frac{2}{5} = \dots$
 (a) $2\frac{5}{12}$ (b) **$2\frac{29}{35}$** (c) $\frac{29}{35}$ (d) 3
- ③ If $-|x| = -10$, then $x = \dots$
 (a) -10 (b) 10 (c) **both a,b** (d) 20
- ④ Integer that expresses the profit 100 LE is
 (a) -1 (b) 200 (c) -100 (d) **100**
- ⑤ The range of the values (30 , 47 , 20 , 17 , 25) is
 (a) 17 (b) **30** (c) 20 (d) 47
- ⑥ Your weight isdata .
 (a) **numerical** (b) categorical (c) descriptive (d) all of them
- ⑦ The prime factors of 10 are
 (a) 1,10 (b) 2,8 (c) **2,5** (d) 3,7

min	Q_1	median	Q_3	max
8	11	14	21	24

Question 4 : Answer the following :

- ① Complete the table ,then Draw a histogram to represent each set of data.
 number of points scored in each basketball game : 28, 16, 38, 44, 21, 38, 35, 48, 33, 29, 37, 39, 18, 38, 42, 37, 32

INTERVEL	FREQUENCY
10 - 19	2
20 - 29	3
30 - 39	9
40 - 49	3



- ② Complete the following table according to the equation : $y = 3x + 2$

X	0	2	4	6
Y	2	8	14	20

- ③ Show that the following expressions are equivalent or not by using substituting

$$2(2t + 9), 4t + 18$$

$$x=1: 2(2 \times 1 + 9) = 22, 4 \times 1 + 18 = 22$$

$$x=2: 2(2 \times 2 + 9) = 26, 4 \times 2 + 18 = 26$$

So, the two expressions are equivalent

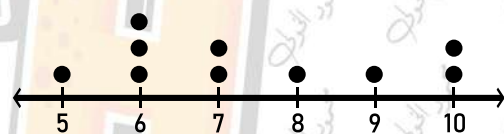
- ④ Rahma bought 56 meters of cloth with 6,944 LE, find the price of each meter ?
 $6,944 \div 56 = 124 \text{ L.E}$

Question 1 : Choose the correct answer :

- ① The mean of 5 , 8 , 6 , x is 5 , then x =
 (a) 0 (b) 1 (c) 2 (d) 3
- ② The numberneither positive nor negative
 (a) 0 (b) 1 (c) -1 (d) 0.5
- ③ The natural numbersthe counting numbers .
 (a) belong (b) not belong (c) subset (d) not subset
- ④ $5m + 8 \leq 12$ is
 (a) Algebraic term (b) equation (c) expression (d) inequality
- ⑤ To find the value of $5 \times 4 \div 10 - (7 + 8)$, we must dofirst .
 (a) subtraction (b) addition (c) multiplication (d) division
- ⑥ $|-12.25| =$
 (a) -12 (b) 12 (c) -12.25 (d) 12.25
- ⑦ Subtract 2.5 from m , then multiply the result by 2 is
 (a) $(2.5 - m) \times 2$ (b) $2.5 - m \times 2$ (c) $(m - 2.5) \times 2$ (d) $m - 2.5 \times 2$

Question 2 : Complete the following :

- ① The mode of the opposite data set is 6
- ② If $x + 20 = 26$, then $0.5x = 3$
- ③ $15 \div 3 + 9 - 14 = 0$
- ④ The range of the values : 14 , 5 , 14 , 70 , 63 , 20 , 12 is 65
- ⑤ The distance between 4 and $|-4|$ is 0
- ⑥ Double of the number b is $2b$
- ⑦ The variable in the equation : $10 + 2m - 2.3 = 40$ is m
- ⑧ (8 , 6) satisfies the rule : $y = \frac{1}{2} x + 2$



Question 3 : Choose the correct answer :

- 1is a descriptive data .
 (a) weight (b) age (c) Tall (d) **your father name**
- 2 The equation is a mathematical expression containsbetween two mathematical sentences.
 (a) > (b) < (c) **=** (d) ≥
- 3 $-2\frac{5}{9}$ $-5\frac{7}{9}$
 (a) **>** (b) < (c) = (d) ≥
- 4 The outlier for the set of data : 105 , 102 , 16 , 114 , 116 , 110 is
 (a) 114 (b) **16** (c) 100 (d) 50
- 5 One is the only common factor of.....numbers
 (a) **relatively prime** (b) composite (c) even (d) odd
- 6 The integers isnumbers .
 (a) counting (b) natural (c) **rational** (d) all of them
- 7 $- (-5) =$
 (a) -5 (b) **5** (c) 0 (d) 10

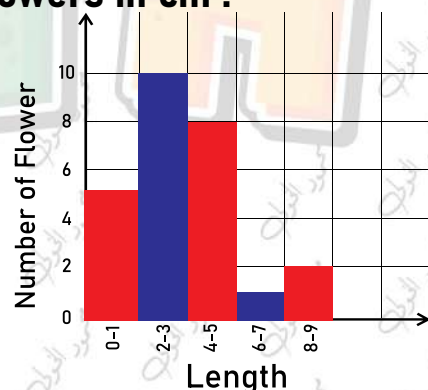
Question 4 : Answer the following :

- 1 Find the mean , median , mode , range and outlier for the following data :
 (12 , 5 , 3 , 3 , 4 , 7 , 8)

Mean = 6 , median = 5 , mode = 3 , outlier = 12 , range = 9

- 2 The following table represents lengths of flowers in cm :
 Represent this data by histogram.

Length	0-1	2-3	4-5	6-7	8-9
Number of Flower	5	10	8	1	2



- 3 Malak need 30 to by a CD . She doesn't have enough money to buy it. Write 4 possible amounts of money that Malak has.
20 , 25 , 10 , 12
- 4 Find four rational numbers lying between : 2.4 and 2.5
2.41 , 2.42 , 2.45 , 2.49

حمل الآن

مجاناً وحصرياً

امتحانات رقم (8)

الترم الاول



Q1: Choose the correct answer :-

30

- 1 The least common multiple (L.C.M) of 3 and 6 is
 (a) 3 (b) 6 (c) 18 (d) 36
- 2 The = the geatest value - the smallest value .
 (a) range (b) mean (c) median (d) mode
- 3 All of the following represents numerical data except the
 (a) temperature (b) height (c) weight (d) favourite color
- 4 If $x = |-8|$, then $x =$
 (a) -8 (b) 8 (c) 10 (d) -10
- 5 is one of the solutions of $x < 2$ in set of natural numbers .
 (a) 1 (b) -1 (c) -2 (d) -3
- 6 The algebraic expression that represents Add y to the number 5 is
 (a) $y - 5$ (b) $y + 5$ (c) $y \times 5$ (d) $y \div 5$
- 7 The minimum of the set of data 20 ,12 ,18 ,19 and 17 is
 (a) 12 (b) 18 (c) 19 (d) 20
- 8 Which of the following are like terms ?
 (a) $3x$ and $3y$ (b) $2x$ and x^2 (c) $3x$ and $2x$ (d) x^2 and y^2
- 9 The dependent variable in the algebraic equation : $3m + 1 = n$ is
 (a) 3 (b) m (c) 1 (d) n

Q2: Answer the following :-

1 If we add three times a number to 10 we got the expression .

.....

.....

.....

2 The value of the expression : $23 - 2x$, at $x = 5$ equals

.....

.....

.....

3 If the mean of the values : 3 , 7 , 4 , 6 and x is 5 , then find the value of x

.....

.....

.....

4 Evaluate the algebraic expression :
 $5^2 + 4(a^2 - 1)$ at $a = 4$

.....

.....

.....

5 Solve the equation :

$$x + 1 = -3$$

6 From the following numbers : 320 , 510 , 324 , 306 , 500 , 205 and 161

a) the numbers which divisible by 6 are

b) the numbers which divisible by 10 are

7 $\frac{5}{6} - \frac{3}{8} =$

Q1: Choose the correct answer :-

30

1 The geatest negative integer is

- (a) -2 (b) -1 (c) 4 (d) -(-3)

2 All the following numbers are rational numbers except

- (a) 1 (b) $\frac{2}{3}$ (c) $\frac{7}{4-4}$ (d) $\frac{4-4}{7}$

3 Which of the following is an algebraic expression ?

- (a) $18 - 2 \times 5$ (b) $5 + 7 - 2$ (c) $3x + y$ (d) $3(2 + 8)$

4 If $3x = 6$, then $x =$

- (a) 2 (b) 3 (c) -3 (d) -2

5 + = $12(5 + 1)$

- (a) 17, 13 (b) 60, 12 (c) 60, 1 (d) 5, 12

6 Seven cubed added to 5 =

- (a) $7^2 + 5$ (b) $7^3 + 5$ (c) $2^7 + 5$ (d) $7 \times 2 \times 5$

7 is lying between - 1.4 and - 0.9

- (a) -0.7 (b) -1.3 (c) -1.6 (d) -0.90

8 A number is no less than 7 is written as

- (a) $n \leq 7$ (b) $n \geq 7$ (c) $n < 7$ (d) $n > 7$

9 If $8m = 0$, then $100m =$

- (a) 8 (b) 100 (c) 0 (d) 800

Q2: Answer the following :-

1 In the opposite Venn diagram find

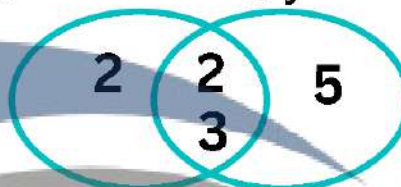
a) G.C.F =

b) L.C.M =

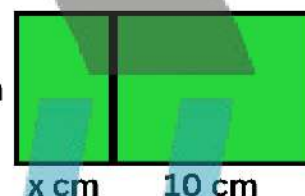
c) value of x and y =

Prime factors
of x

Prime factors
of y



2 Write algebraic expression to find the area and perimeter of the opposite figure



3 In the equation $y = x + \frac{1}{3}$, if the input is $2\frac{2}{3}$, then the output is

way to success

4 $8 - 3 \times 2 \div [4 - 2] = \dots\dots\dots$

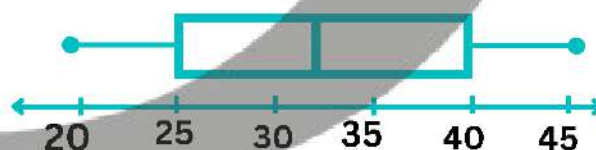
- 5 If the median of the values: $k + 1, k + 2, k + 3, k + 4, k + 5$ is 13 then find the value of k ?

- 6 a) Distribute 18 biscuits and 12 chocolates equally in number of plates , then the greatest number of plates is

- b) The like terms in the expression $5y + 5x + 5x^2 + 3 + 2x$ are..... and

way to success

- 7 The box plot shows the data for the average weights of some students , then find
 minimum =
 maximum=
 Q1 =
 Q3 =



Q1: Choose the correct answer :-

30

- 1 The mode of the data set : 7 , 6 , 4 , 8 , 1 , 5 , 11 , and 4 is
- (a) 5.5 (b) 8 (c) 4 (d) 10
- 2 Which of the following are relatively prime numbers ?
- (a) 3 and 6 (b) 10 and 20 (c) 14 and 15 (d) 8 and 12
- 3 $3^4 = \dots$
- (a) 4^3 (b) 4×3 (c) 3 cubed (d) $3 \times 3 \times 3 \times 3$
- 4 The algebraic expression of : 3 times a number is added to 7 is
- (a) $m + 7$ (b) $m - 7$ (c) $3m - 7$ (d) $3m + 7$
- 5 The number 90 is not divisible by
- (a) 3 (b) 4 (c) 5 (d) 6
- 6 If $y = 1 + 2x$, then (....., 7) satisfies the rule .
- (a) 1 (b) 2 (c) 3 (d) 4
- 7 The mean of 2 , 3 , 8 , 9 , 10 and 10 is
- (a) 6 (b) 7 (c) 8 (d) 9
- 8 The shape that shows individual data is the
- (a) histogram (b) dot plot (c) box plot (d) non of previous
- 9 Which of the following is one of the solutions of the inequality $x \geq -1$
- (a) -2 (b) -3 (c) -4 (d) 0

Q2: Answer the following :-

1 Order the given numbers from least to greatest :

$-4, | -8 |, 5, 0, -6$

The order =

2 Solve each of the following equations (show your work):

a) $5x = 30$

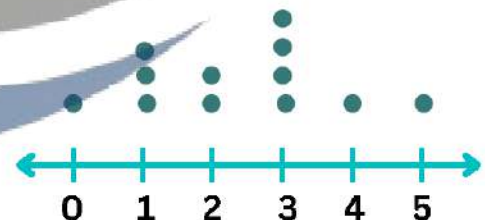
b) $8 + x = 15$

3 Evaluate the expression:

$14 \div n + 5^2$ at $n = 2$

4 a) How many people were surveyed?

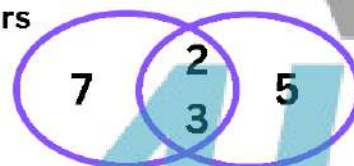
b) How many people read 3 books?



- 5 Write an equation use the variables x and y , where x is the independent variable , write the equation :
(multiply by 4 and add 3)

- 6 From the opposite Venn diagram find the G.C.F and the two numbers :

Prime factors
of x

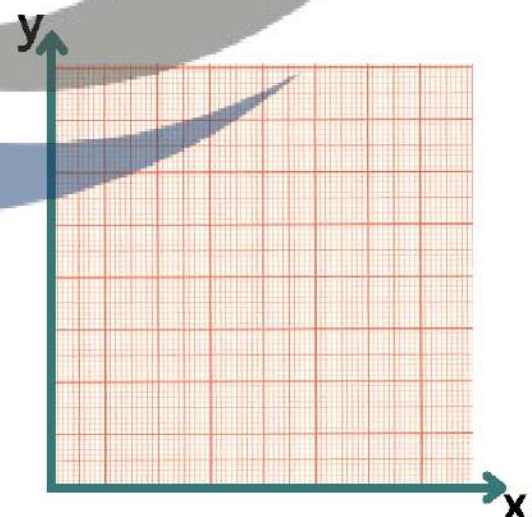


Prime factors
of y

- 7 Represent graphically the relation : $y = x + 1$

Complete the table

x	0	1	2
y	1	.....	.....
(x, y)	.....	.....	.....



Q1: Choose the correct answer :-

- | | | | | | |
|----------|---|----------|---|----------|---|
| 1 | b | 4 | b | 7 | a |
| 2 | a | 5 | a | 8 | c |
| 3 | d | 6 | b | 9 | d |

Q3: Answer the following :

- 1** $3x + 10$
- 2** $23 - 2 \times 5 = 23 - 10 = 13$
- 3** (the number of values $\times$ the mean) - (the sum of given values)
 $= (5 \times 5) - 20 = 5$
- 4** $25 - 4 (16 - 1) = 25 + 4 \times 15$
 $= 25 + 60 = 85$
- 5** $x = - 3 - 1$
 $x = - 4$
- 6** a) 510 , 324 , 306
 b) 320 , 510 , 500
- 7** $= \frac{20}{24} - \frac{9}{24} = \frac{11}{24}$

Q1: Choose the correct answer :-

- | | | |
|------------|------------|------------|
| 1 b | 4 a | 7 b |
| 2 c | 5 b | 8 b |
| 3 c | 6 b | 9 c |

Q3: Answer the following :-

- 1** a) G.C.F = $2 \times 3 = 6$
b) L.C.M = $2 \times 2 \times 3 \times 5 = 60$
c) $x + y = 12 + 30 = 42$
- 2** a) area = $5 \times (x + 10) \text{ cm}^2$
b) perimeter = $2 \times (5 + x + 10) \text{ cm}$
- 3** $y = 2 \frac{2}{3} + \frac{1}{3} = 2 \frac{3}{3} = 2 + 1 = 3$
- 4** $8 - 3 \times 2 \div 2 = 8 - 6 \div 2$
 $= 8 - 3 = 5$
- 5** $k + 3 = 13$
 $k = 13 - 3 \quad k = 10$
- 6** a) 6 plates
b) 5 x and 2 x
- 7** minimum = 20
maximum = 45
Q1 = 25
Q3 = 40

Q1: Choose the correct answer :-

- | | | | | | |
|---|---|---|---|---|---|
| 1 | c | 4 | d | 7 | b |
| 2 | c | 5 | b | 8 | b |
| 3 | d | 6 | c | 9 | d |

Q3: Answer the following :

1 $-6, -4, 0, 5, | -7 |$

2 a) $x = 30 \div 5$ $x = 6$
b) $x = 15 - 8$ $x = 7$

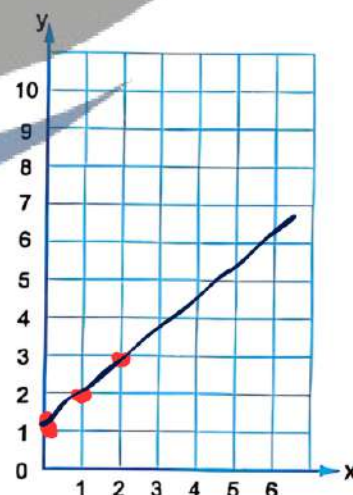
3 $14 \div 2 + 5^2 = 14 \div 2 + 25$
 $= 7 + 25 = 32$

4 a) 12 people
b) 4 people

5 $y = 4x + 3$

6 G.C.F = $2 \times 3 = 6$
 $x = 2 \times 3 \times 7 = 42$ $y = 2 \times 3 \times 5 = 30$

7	x	0	1	2
	y	1	2	3
	(x, y)	(0, 1)	(1, 2)	(2, 3)



كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9

